

Documentation Développeurs Apple Computer France 1987

Document développeur numéro 27

65SC816 Opcodes, cycle by cycle listing

type d'upgrade de ce document : 3

- 1 Documentation de première catégorie inchangée
- 2 Documentation de deuxième catégorie mise à jour
- 3 Documentation de deuxième catégorie inchangée
- 4 Mise à jour payante de la documentation de première catégorie
- 5 Mise à jour gratuite de la documentation de première catégorie
- 6 Nouveautés payantes non vitales
- 7 Nouveautés gratuites et vitales

Taille : 80 page(s) environ

Domaine : 816

VERSION :
DATE : 17.06.85

**65SC816
OPCODE
CYCLE BY CYCLE
LISTING**

**PREPARED
BY
GUS ANDRADE**

6-17-85

Introduction.

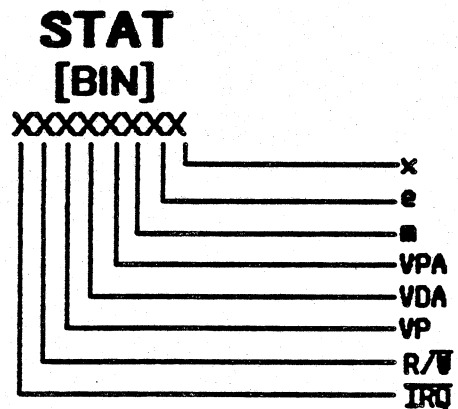
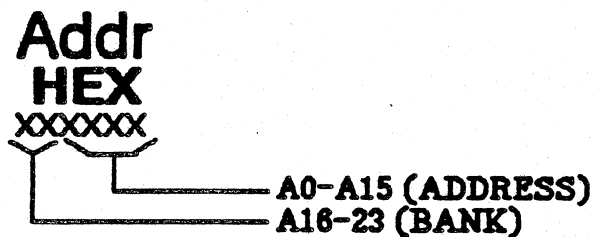
The following document contains opcode listings for the the Western Design Center 65SC816 microprocessor. The listings are broken down into two major categories; non branching opcodes and branching opcodes. The non-branching opcode list is broken down into five subcategories. The subcategories are as follows:

1. e=0, m=0, x=0
2. e=0, m=0, x=1
3. e=0, m=1, x=0
4. e=0, m=1, x=1
5. e=1, m=1, x=1*

* In emulation mode the m and x bits are forced to one.

The branching opcodes list is displayed with e=0, m=0, x=0.

The address (ADDR) and the status (STAT) fields in the listings are defined as follows:



Report: 65816.opcode.cycles

Name	Mode	Op#	Bytes	e=m=x=0	e=m=0,x=1	e=x=0,m=1	e=0,m=x=1	e=m=x=1	branch,e=m=x=0
ADC	(d,x)	61	2	1-15	2-15	3-14	4-14	5-14	
ADC	r,s	63	2	1-16	2-16	3-14	4-14	5-15	
ADC	d	65	2	1-16	2-16	3-14	4-14	5-15	
ADC	[d]	67	2	1-16	2-16	3-15	4-14	5-15	
ADC	#	69	2 (3)	1-16	2-16	3-15	4-15	5-15	
ADC	a	6D	3	1-16	2-16	3-15	4-15	5-15	
ADC	al	6F	4	1-17	2-17	3-15	4-15	5-15	
ADC	(d),y	71	2	1-17	2-17	3-15	4-15	5-15	
ADC	(d)	72	2	1-17	2-17	3-15	4-15	5-16	
ADC	(r,s),y	73	2	1-17	2-17	3-15	4-15	5-16	
ADC	d,x	75	2	1-17	2-17	3-16	4-15	5-16	
ADC	[d],y	77	2	1-18	2-17	3-16	4-16	5-16	
ADC	a,y	79	3	1-18	2-18	3-16	4-16	5-16	
ADC	a,x	7D	3	1-18	2-18	3-16	4-16	5-16	
ADC	al,x	7F	4	1-18	2-18	3-16	4-16	5-17	
AND	(d,x)	21	2	1-5	2-5	3-4	4-4	5-4	
AND	r,s	23	2	1-5	2-5	3-4	4-4	5-4	
AND	d	25	2	1-5	2-5	3-4	4-4	5-4	
AND	[d]	27	2	1-5	2-5	3-5	4-5	5-5	
AND	#	29	2 (3)	1-6	2-6	3-5	4-5	5-5	
AND	a	2D	3	1-6	2-6	3-5	4-5	5-5	
AND	al	2F	4	1-6	2-6	3-5	4-5	5-5	
AND	(d),y	31	2	1-6	2-6	3-5	4-5	5-5	
AND	(d)	32	2	1-6	2-6	3-6	4-5	5-5	
AND	(r,s),y	33	2	1-6	2-6	3-6	4-6	5-6	
AND	d,x	35	2	1-7	2-7	3-6	4-6	5-6	
AND	[d],y	37	2	1-7	2-7	3-6	4-6	5-6	
AND	a,y	39	3	1-7	2-7	3-6	4-6	5-6	
AND	a,x	3D	3	1-7	2-7	3-6	4-6	5-6	
AND	al,x	3F	4	1-8	2-8	3-7	4-7	5-7	
ASL	d	06	2	1-2	2-2	3-2	4-2	5-2	
ASL	Acc	0A	1	1-2	2-2	3-2	4-2	5-2	
ASL	a	0E	3	1-3	2-3	3-3	4-3	5-3	
ASL	d,x	16	2	1-4	2-4	3-3	4-3	5-3	
ASL	a,x	1E	3	1-4	2-4	3-4	4-4	5-4	
BCC	r	90	2						6-1
BCS	r	80	2						6-1
BEQ	r	F0	2						6-1
BIT	d	24	2	1-5	2-5	3-4	4-4	5-4	
BIT	a	2C	3	1-6	2-6	3-5	4-5	5-5	
BIT	d,x	34	2	1-7	2-7	3-6	4-6	5-6	
BIT	a,x	3C	3	1-7	2-7	3-6	4-6	5-6	
BIT	#	89	2 (3)	1-19	2-19	3-17	4-17	5-17	
BMI	r	30	2						6-1
BNE	r	D0	2						6-1
BPL	r	10	2						6-1
BRA	r	80	2						6-2
BRK	i	00	2	1-1	2-1	3-1	4-1	5-1	
BRL	ri	82	3						6-2
BVC	r	50	2						6-2
BVS	r	70	2						6-2
CLC	i	18	1	1-1	2-1	3-1	4-1	5-1	
CLD	i	D8	1	1-1	2-1	3-1	4-1	5-24	
CLI	i	58	1	1-15	2-15	3-13	4-13	5-14	
CLV	i	B8	1	1-23	2-23	3-21	4-21	5-21	
CMP	(d,x)	C1	2	1-24	2-24	3-22	4-21	5-22	

File: Opcode.cycles

Report: 65816.opcode.cycles

Name	Mode	Op#	Bytes	em=x=0	em=0,x=1	em=x=0,m=1	em=0,m=x=1	em=x=1	branch,em=x=0
CMP	r,s	C3	2	1-24	2-24	3-22	4-21	5-22	
CMP	d	C5	2	1-24	2-24	3-22	4-21	5-22	
CMP	[d]	C7	2	1-25	2-24	3-22	4-22	5-22	
CMP	#	C9	2 (3)	1-25	2-24	3-22	4-22	5-22	
CMP	a	CD	3	1-26	2-25	3-23	4-23	5-23	
CMP	al	CF	4	1-26	2-25	3-23	4-23	5-23	
CMP	(d),y	D1	2	1-26	2-25	3-23	4-23	5-23	
CMP	(d)	D2	2	1-26	2-25	3-23	4-23	5-23	
CMP	(r,s),y	D3	2	1-26	2-25	3-24	4-23	5-23	
CMP	d,x	D5	2	1-27	2-26	3-24	4-23	5-23	
CMP	[d],y	D7	2	1-27	2-26	3-24	4-23	5-24	
CMP	a,y	D9	3	1-27	2-26	3-24	4-24	5-24	
CMP	a,x	DD	3	1-27	2-26	3-24	4-24	5-24	
CMP	al,x	DF	4	1-28	2-27	3-25	4-24	5-24	
COP	i	02	2	1-1	2-1	3-1	4-1	5-1	
CPX	#	E0	2 (3)	1-28	2-27	3-25	4-24	5-24	
CPX	d	E4	2	1-28	2-27	3-25	4-24	5-25	
CPX	a	EC	3	1-29	2-28	3-25	4-25	5-25	
CPY	#	C0	2 (3)	1-24	2-24	3-22	4-21	5-22	
CPY	d	C4	2	1-24	2-24	3-22	4-21	5-22	
CPY	a	CC	3	1-26	2-25	3-23	4-23	5-23	
DEC	Acc	3A	1	1-7	2-7	3-6	4-6	5-6	
DEC	d	C6	2	1-24	2-24	3-22	4-21	5-22	
DEC	a	CE	3	1-26	2-25	3-23	4-23	5-23	
DEC	d,x	D6	2	1-27	2-26	3-24	4-23	5-24	
DEC	a,x	DE	3	1-27	2-26	3-24	4-24	5-24	
DEX	i	CA	1	1-25	2-24	3-22	4-22	5-22	
DEY	i	88	1	1-19	2-19	3-17	4-17	5-17	
EOR	(d,x)	41	2	1-8	2-8	3-7	4-7	5-7	
EOR	r,s	43	2	1-8	2-8	3-7	4-7	5-7	
EOR	d	45	2	1-11	2-11	3-10	4-9	5-10	
EOR	[d]	47	2	1-11	2-11	3-10	4-10	5-10	
EOR	#	49	2 (3)	1-11	2-11	3-10	4-10	5-10	
EOR	a	4D	3	1-11	2-11	3-10	4-10	5-10	
EOR	al	4F	4	1-11	2-11	3-10	4-10	5-10	
EOR	(d),y	51	2	1-11	2-11	3-10	4-10	5-10	
EOR	(d)	52	2	1-12	2-12	3-10	4-10	5-11	
EOR	(r,s),y	53	2	1-12	2-12	3-10	4-10	5-11	
EOR	d,x	55	2	1-14	2-14	3-13	4-13	5-13	
EOR	[d],y	57	2	1-15	2-14	3-13	4-13	5-14	
EOR	a,y	59	3	1-15	2-15	3-14	4-13	5-14	
EOR	a,x	5D	3	1-15	2-15	3-14	4-14	5-14	
EOR	al,x	5F	4	1-15	2-15	3-14	4-14	5-14	
INC	Acc	1A	1	1-4	2-4	3-4	4-4	5-4	
INC	d	E6	2	1-28	2-27	3-25	4-24	5-25	
INC	a	EE	3	1-29	2-28	3-26	4-25	5-25	
INC	d,x	F6	2	1-30	2-29	3-26	4-26	5-26	
INC	a,x	FE	3	1-30	2-29	3-27	4-26	5-27	
INX	i	E8	1	1-28	2-27	3-25	4-25	5-25	
INY	i	C8	1	1-25	2-24	3-22	4-22	5-22	
JML	(a)	DC	3						6-3
JMP	a	4C	3						6-2
JMP	al	5C	4						6-2
JMP	(a)	6C	3						6-3
JMP	(a,x)	7C	3						6-3
JSL	al	22	4						6-2

Report: 65816.opcode.cycles

Name	Mode	Op#	Bytes	o=mn,x=0	o=mn=0,x=1	o=x=0,m=1	o=0,m=x=1	o=mn=x=1	branch,o=mn=x=0
JSR	a	20	3						6-2
JSR	(a,x)	FC	3						6-3
LDA	(d,x)	A1	2	1-21	2-21	3-19	4-19	5-19	
LDA	r,s	A3	2	1-21	2-21	3-19	4-19	5-19	
LDA	d	A5	2	1-22	2-21	3-19	4-19	5-19	
LDA	[d]	A7	2	1-22	2-21	3-20	4-19	5-20	
LDA	#	A9	2 (3)	1-1	2-1	3-20	4-19	5-20	
LDA	a	AD	3	1-22	2-22	3-20	4-20	5-20	
LDA	al	AF	4	1-22	2-22	3-20	4-20	5-20	
LDA	(d),y	B1	2	1-22	2-22	3-20	4-20	5-20	
LDA	(d)	B2	2	1-23	2-22	3-20	4-20	5-20	
LDA	(r,s),y	B3	2	1-23	2-22	3-21	4-20	5-21	
LDA	d,x	B5	2	1-23	2-23	3-21	4-20	5-21	
LDA	[d],y	B7	2	1-23	2-23	3-21	4-20	5-21	
LDA	a,y	B9	3	1-23	2-23	3-21	4-21	5-21	
LDA	a,x	BD	3	1-24	2-23	3-21	4-21	5-21	
LDA	al,x	BF	4	1-24	2-23	3-22	4-21	5-21	
LDX	#	A2	2 (3)	1-21	2-21	3-19	4-19	5-19	
LDX	d	A6	2	1-22	2-21	3-19	4-19	5-19	
LDX	a	AE	3	1-22	2-22	3-20	4-20	5-20	
LDX	d,y	B6	2	1-23	2-23	3-21	4-20	5-21	
LDX	a,y	BE	3	1-24	2-23	3-21	4-21	5-21	
LDY	#	A0	2 (3)	1-21	2-21	3-19	4-19	5-19	
LDY	d	A4	2	1-22	2-21	3-19	4-19	5-19	
LDY	a	AC	3	1-22	2-22	3-20	4-19	5-20	
LDY	d,x	B4	2	1-23	2-23	3-21	4-20	5-21	
LDY	a,x	BC	3	1-24	2-23	3-21	4-21	5-21	
LSR	d	46	2	1-11	2-11	3-10	4-9	5-10	
LSR	Acc	4A	1	1-11	2-11	3-10	4-10	5-10	
LSR	a	4E	3	1-11	2-11	3-10	4-10	5-10	
LSR	d,x	56	2	1-14	2-14	3-13	4-13	5-13	
LSR	a,x	5E	3	1-15	2-15	3-14	4-14	5-14	
MMN	xya	54	3	1-12	2-12	3-11	4-11	5-11	
MVP	xya	44	3	1-8	2-8	3-7	4-7	5-7	
NOP	i	EA	1	1-28	2-28	3-25	4-25	5-25	
ORA	(d,x)	01	2	1-1	2-1	3-1	4-1	5-1	
ORA	r,s	03	2	1-2	2-2	3-2	4-2	5-2	
ORA	d	05	2	1-2	2-2	3-2	4-2	5-2	
ORA	[d]	07	2	1-2	2-2	3-2	4-2	5-2	
ORA	#	09	2 (3)	1-2	2-2	3-2	4-2	5-2	
ORA	a	0D	3	1-3	2-3	3-2	4-2	5-2	
ORA	al	0F	4	1-3	2-3	3-3	4-3	5-3	
ORA	(d),y	11	2	1-3	2-3	3-3	4-3	5-3	
ORA	(d)	12	2	1-3	2-3	3-3	4-3	5-3	
ORA	(r,s),y	13	2	1-3	2-3	3-3	4-3	5-3	
ORA	d,x	15	2	1-4	2-4	3-3	4-3	5-3	
ORA	[d],y	17	2	1-4	2-4	3-3	4-3	5-3	
ORA	a,y	19	3	1-4	2-4	3-4	4-4	5-4	
ORA	a,x	1D	3	1-4	2-4	3-4	4-4	5-4	
ORA	al,x	1F	4	1-5	2-5	3-4	4-4	5-4	
PEA	s	F4	3	1-29	2-28	3-26	4-26	5-26	
PEI	s	D4	2	1-26	2-26	3-24	4-23	5-23	
PER	s	62	3	1-15	2-15	3-14	4-14	5-14	
PHA	s	48	1	1-11	2-15	3-10	4-10	5-10	
PHB	s	8B	1	1-19	2-19	3-17	4-17	5-17	
PHD	s	0B	1	1-2	2-2	3-2	4-2	5-2	

Name	Mode	Op#	Bytes	e==m=x=0	e==m=0,x=1	e=x=0,m=1	e=0,m=x=1	e==m=x=1	branch,e==m=x=0
PHK	s	4B	1	1-11	2-11	3-10	4-10	5-10	
PHP	s	0B	1	1-5	2-5	3-2	4-2	5-2	
PHX	s	DA	1	1-27	2-26	3-24	4-24	5-24	
PHY	s	5A	1	1-15	2-18	3-14	4-13	5-14	
PLA	s	6B	1	1-16	2-16	3-15	4-15	5-15	
PLB	s	AB	1	1-22	2-22	3-20	4-19	5-20	
PLD	s	2B	1	1-6	2-6	3-5	4-5	5-5	
PLP	s	2B	1	1-5	2-6	3-5	4-5	5-5	
PLX	s	FA	1	1-30	2-29	3-27	4-26	5-26	
PLY	s	7A	1	1-18	2-18	3-16	4-16	5-16	
REP	#	C2	2	1-1	2-1	3-1	4-1	5-1	
ROL	d	26	2	1-5	2-5	3-4	4-4	5-4	
ROL	Acc	2A	1	1-6	2-6	3-5	4-5	5-5	
ROL	a	2E	3	1-6	2-6	3-5	4-5	5-5	
ROL	d,x	36	2	1-7	2-7	3-6	4-6	5-6	
ROL	a,x	3E	3	1-8	2-8	3-7	4-6	5-7	
ROR	d	66	2	1-16	2-16	3-14	4-14	5-15	
ROR	Acc	6A	1	1-16	2-16	3-15	4-15	5-15	
ROR	a	6E	3	1-16	2-16	3-15	4-15	5-15	
ROR	d,x	76	2	1-17	2-17	3-16	4-16	5-16	
ROR	a,x	7E	3	1-18	2-18	3-16	4-16	5-17	
RTI	s	40	1	1-1	2-1	3-1	4-1	5-7	
RTL	s	6B	1						
RTS	s	60	1				4-14		6-2
SBC	(d,x)	E1	2	1-28	2-27	3-25	4-24	5-24	6-2
SBC	r,s	E3	2	1-28	2-27	3-25	4-24	5-24	
SBC	d	E5	2	1-28	2-27	3-25	4-24	5-25	
SBC	[d]	E7	2	1-28	2-27	3-25	4-25	5-25	
SBC	#	E9	2 (3)	1-28	2-27	3-25	4-25	5-25	
SBC	a	ED	3	1-29	2-28	3-26	4-25	5-25	
SBC	al	EF	4	1-29	2-28	3-26	4-25	5-25	
SBC	(d),y	F1	2	1-29	2-28	3-26	4-25	5-25	
SBC	(d)	F2	2	1-29	2-28	3-26	4-25	5-26	
SBC	(r,s),y	F3	2	1-29	2-28	3-26	4-25	5-26	
SBC	d,x	F5	2	1-30	2-29	3-26	4-26	5-26	
SBC	[d],y	F7	2	1-30	2-29	3-27	4-26	5-26	
SBC	a,y	F9	3	1-30	2-29	3-27	4-26	5-26	
SBC	a,x	FD	3	1-30	2-29	3-27	4-26	5-26	
SBC	al,x	FF	4	1-31	2-30	3-27	4-26	5-27	
SEC	i	38	1	1-7	2-7	3-6	4-6	5-6	
SED	i	F8	1	1-30	2-29	3-27	4-26	5-26	
SEI	i	78	1	1-1	2-1	3-1	4-1	5-1	
SEP	#	E2	2	1-5	2-5	3-25	4-1	5-1	
STA	(d,x)	81	2	1-18	2-18	3-17	4-16	5-17	
STA	r,s	83	2	1-19	2-18	3-17	4-17	5-17	
STA	d	85	2	1-19	2-19	3-17	4-17	5-17	
STA	[d]	87	2	1-19	2-19	3-17	4-17	5-17	
STA	a	8D	3	1-19	2-19	3-17	4-17	5-18	
STA	al	8F	4	1-20	2-19	3-18	4-17	5-18	
STA	(d),y	91	2	1-20	2-19	3-18	4-17	5-18	
STA	(d)	92	2	1-20	2-20	3-18	4-18	5-18	
STA	(r,s),y	93	2	1-20	2-20	3-18	4-18	5-18	
STA	d,x	95	2	1-20	2-20	3-18	4-18	5-18	
STA	[d],y	97	2	1-20	2-20	3-18	4-18	5-18	
STA	a,y	99	3	1-21	2-20	3-18	4-18	5-19	
STA	a,x	9D	3	1-21	2-21	3-19	4-18	5-19	

Report: 65816.opcode.cycles

Name	Mode	Op#	Bytes	e=m=x=0	e=m=0,x=1	e=x=0,m=1	e=0,m=x=1	e=m=x=1	branch,e=m=x=0
STA	a1,x	9F	4	1-21	2-21	3-19	4-19	5-19	
STP	i	DB	1	1-31	2-30	3-27	4-27	5-27	
STX	d	86	2	1-19	2-19	3-17	4-17	5-17	
STX	a	8E	3	1-19	2-19	3-17	4-17	5-18	
STX	d,y	96	2	1-20	2-20	3-18	4-18	5-18	
STY	d	84	2	1-19	2-19	3-17	4-17	5-17	
STY	a	8C	3	1-19	2-19	3-17	4-17	5-17	
STY	d,x	94	2	1-20	2-20	3-18	4-18	5-18	
STZ	d	64	2	1-16	2-16	3-14	4-14	5-15	
STZ	d,x	74	2	1-17	2-17	3-16	4-15	5-16	
STZ	a	9C	3	1-21	2-21	3-19	4-18	5-19	
STZ	a,x	9E	3	1-21	2-21	3-19	4-19	5-19	
TAX	i	AA	1	1-22	2-22	3-20	4-19	5-20	
TAY	i	A8	1	1-22	2-22	3-20	4-19	5-20	
TCD	i	5B	1	1-1	2-1	3-1	4-1	5-1	
TCS	i	1B	1	1-1	2-1	3-1	4-1	5-4	
TDC	i	7B	1	1-18	2-18	3-16	4-16	5-16	
TRB	d	14	2	1-3	2-3	3-3	4-3	5-3	
TRB	a	1C	3	1-4	2-4	3-4	4-4	5-4	
TSB	d	04	2	1-2	2-2	3-2	4-2	5-2	
TSB	a	0C	3	1-2	2-3	3-2	4-2	5-2	
TSC	i	3B	1	1-7	2-7	3-6	4-6	5-6	
TSX	i	BA	1	1-21	2-20	3-19	4-18	5-19	
TXA	i	8A	1	1-19	2-19	3-17	4-17	5-17	
TXS	i	9A	1	1-21	2-20	3-19	4-18	5-19	
TXY	i	9B	1	1-21	2-20	3-19	4-18	5-19	
TYA	i	98	1	1-20	2-20	3-18	4-18	5-18	
TYX	i	BB	1	1-23	2-23	3-21	4-21	5-21	
WAI	i	CB	1	1-25	2-24	3-22	4-22	5-22	
WDM	i	42	2	1-8	2-8	3-7	4-7	5-7	
XBA	i	EB	1	1-28	2-28	3-25	4-25	5-25	
XCE	i	FB	1	1-1	2-1	3-1	4-1	5-1	

65SC816

**NON-branching
opcodes**

$e=0$

$m=0$

$x=0$

State Listing _____ Data acquired Jun 12 1985 09:50

Label> ADDR Apple 65816 InvAsm 1.0 STAT EXTRA T1
Base > [HEX] [ASM] [BIN] [USR] [Relc]

[Mar] XXXXXX [Instructions] XXXXXXXX [XXXXX]

+0000*	000300	CLC	01111111	opcde	0.
+0001	000301	78 false read	01100111	fread	1.00
+0002*	000301	SEI	01111111	opcde	950.
+0003	000302	D8 false read	01100111	fread	1.00
+0004*	000302	CLD	01111111	opcde	950.
+0005	000303	FB false read	11100111	fread	1.00
+0006*	000303	XCE	11111111	opcde	950.
+0007	000304	C2 false read	11100111	fread	950.
+0008*	000304	REP #30	11111101	opcde	1.00
+0009	000305	30 operand fetched	11101101	oprnd	950.
+0010	000305	30 false read	11100101	fread	1.00
+0011*	000306	LDA #0600	11111001	opcde	950.
+0012	000307	00 operand fetched	11101000	oprnd	1.00
+0013	000308	06 operand fetched	11101000	oprnd	950.
+0014*	000309	TCD	11111000	opcde	1.00
+0015	00030A	A9 false read	11100000	fread	950.
+0016*	00030A	LDA #07FF	11111000	opcde	950.
+0017	00030B	FF operand fetched	11101000	oprnd	1.00
+0018	00030C	07 operand fetched	01101000	oprnd	950.
+0019*	00030D	TCS	01111000	opcde	1.00
+0020	00030E	00 false read	01100000	fread	950.
+0021*	00030E	BRK 10	01111000	opcde	1.00
+0022	00030F	10 operand fetched	01101000	oprnd	1.12
+0023	0007FF	00 data written	00110000	write	950.
+0024	0007FE	03 data written	00110000	write	1.00
+0025	0007FD	10 data written	00110000	write	950.
+0026	0007FC	05 data written	00110000	write	950.
+0027	00FFE6	20 break native vpull	01010000	vpull	1.00
+0028	00FFE7	02 high byte of vpull	11010000	vpull	950.
+0029*	000220	RTI	11111000	opcde	1.00
+0030	000221	83 false read	11100000	fread	950.
+0031	000221	83 false read	11100000	fread	1.00
+0032	0007FC	05 data read	11110000	read	950.
+0033	0007FD	10 data read	11110000	read	950.
+0034	0007FE	03 data read	11110000	read	1.00
+0035	0007FF	00 data read	11110000	read	950.
+0036*	000310	ORA (10,X)	11111000	opcde	1.00
+0037	000311	10 operand fetched	11101000	oprnd	950.
+0038	000311	10 false read	11100000	fread	1.00
+0039	000687	20 data read	11110000	read	950.
+0040	000688	38 data read	11110000	read	1.00
+0041	003820	77 data read	01110000	read	950.
+0042	003821	11 data read	01110000	read	1.00
+0043*	000312	COP 11	01111000	opcde	950.
+0044	000313	11 operand fetched	01101000	oprnd	950.
+0045	0007FF	00 data written	00110000	write	1.00
+0046	0007FE	03 data written	00110000	write	950.
+0047	0007FD	14 data written	00110000	write	1.00
+0048	0007FC	05 data written	00110000	write	950.
+0049	00FFE4	04 cop native vpull	01010000	vpull	1.00
+0050	00FFE5	02 high byte of vpull	01010000	vpull	950.

State Listing _____ Data acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HLX]	[ASM]	[BIN]	[USP]	[Rela]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0051	000204	RTI	11111000	opede	1.00
+0052	000205	A0 false read	11100000	fread	950.
+0053	000205	A0 false read	11100000	fread	950.
+0054	0007FC	05 data read	11110000	read	1.00
+0055	0007FD	14 data read	11110000	read	950.
+0056	0007FE	03 data read	11110000	read	1.00
+0057	0007FF	00 data read	11110000	read	950.
+0058	000314	DRA 10,S	11111000	opede	1.00
+0059	000315	10 operand fetched	11101000	oprnd	950.
+0060	000315	10 false read	11100000	fread	1.00
+0061	00080F	0D data read	11110000	read	950.
+0062	000810	00 data read	11110000	read	950.
+0063	000316	TSB 10	11111000	opede	1.00
+0064	000317	10 operand fetched	01101000	oprnd	950.
+0065	000610	20 data read	01110000	read	1.00
+0066	000611	3B data read	01110000	read	950.
+0067	000611	3B false read	01100000	fread	1.00
+0068	000611	3F data written	00110000	write	950.
+0069	000610	FF data written	00110000	write	1.00
+0070	000318	DRA 10	01111000	opede	950.
+0071	000319	10 operand fetched	01101000	oprnd	950.
+0072	000610	FF data read	01110000	read	1.00
+0073	000611	3F data read	01110000	read	950.
+0074	00031A	ASL 10	11111000	opede	1.00
+0075	00031B	10 operand fetched	11101000	oprnd	950.
+0076	000610	FF data read	11110000	read	1.00
+0077	000611	3F data read	11110000	read	950.
+0078	000611	3F false read	11100000	fread	1.00
+0079	000611	7F data written	10110000	write	950.
+0080	000610	FE data written	10110000	write	950.
+0081	00031C	DRA [10]	11111000	opede	1.00
+0082	00031D	10 operand fetched	11101000	oprnd	950.
+0083	000610	FE data read	11110000	read	1.00
+0084	000611	7F data read	11110000	read	950.
+0085	000612	0D data read	11110000	read	1.00
+0086	0D7FFE	0D data read	11110000	read	950.
+0087	0D7FFF	0D data read	01110000	read	1.12
+0088	00031E	PHP	01111000	opede	1.00
+0089	00031F	09 false read	01100000	fread	950.
+0090	0007FF	04 data written	00110000	write	950.
+0091	00031F	DRA \$1177	01111000	opede	1.00
+0092	000320	77 operand fetched	01101000	oprnd	950.
+0093	000321	11 operand fetched	01101000	oprnd	1.00
+0094	000322	ASL Accumulator	01111000	opede	950.
+0095	000323	0B false read	01100000	fread	1.00
+0096	000323	PHD	01111000	opede	950.
+0097	000324	0C false read	11100000	fread	950.
+0098	0007FE	06 data written	10110000	write	1.00
+0099	0007FD	00 data written	10110000	write	950.
+0100	000324	TSB FFFF	11111000	opede	1.00
+0101	000325	FF operand fetched	11101000	oprnd	950.

State Listing _____ Data acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTFA	71
Base	[HEX]	ASM	[BIN]	[USC]	[Rc]e
[Mar]	XXXXXX	Instructions	XXXXXXXX	XXXXYY	
+0102	000326	FF operand fetched	11101000	oprnd	1.00
+0103	00FFFF	02 data read	11110000	read	950.
+0104	010000	00 data read	11110000	read	1.00
+0105	010000	00 false read	11100000	fread	950.
+0106	010000	7F data written	10110000	write	1.00
+0107	00FFFF	FE data written	10110000	write	950.
+0108*	000327	ORA FFFF	11111000	opcode	950.
+0109	000328	FF operand fetched	11101000	oprnd	1.00
+0110	000329	FF operand fetched	01101000	oprnd	950.
+0111	00FFFF	02 data read	01110000	read	1.00
+0112	010000	7F data read	01110000	read	950.
+0113*	00032A	ASL FFFF	01111000	opcode	1.00
+0114	00032B	FF operand fetched	01101000	oprnd	950.
+0115	00032C	FF operand fetched	01101000	oprnd	1.00
+0116	00FFFF	02 data read	01110000	read	950.
+0117	010000	7F data read	01110000	read	950.
+0118	010000	7F false read	01100000	fread	1.00
+0119	010000	FE data written	00110000	write	950.
+0120	00FFFF	04 data written	10110000	write	1.00
+0121*	00032D	ORA FFFFFF	11111000	opcode	950.
+0122	00032E	FF operand fetched	11101000	oprnd	1.00
+0123	00032F	FF operand fetched	11101000	oprnd	950.
+0124	000330	FF operand fetched	11101000	oprnd	1.00
+0125	FFFFFF	02 data read	11110000	read	950.
+0126	000000	FE data read	11110000	read	950.
+0127*	000331	ORA (10),Y	11111000	opcode	1.00
+0128	000332	10 operand fetched	11101000	oprnd	950.
+0129	000610	FE data read	11110000	read	1.00
+0130	000611	7F data read	11110000	read	950.
+0131	000611	7F false read	11100000	fread	1.00
+0132	008002	54 data read	11110000	read	950.
+0133	008003	54 data read	01110000	read	1.00
+0134*	000333	ORA (10)	01111000	opcode	950.
+0135	000334	10 operand fetched	01101000	oprnd	950.
+0136	000610	FE data read	01110000	read	1.00
+0137	000611	7F data read	01110000	read	950.
+0138	007FFE	00 data read	01110000	read	1.00
+0139	007FFF	00 data read	01110000	read	950.
+0140*	000335	ORA (10,S),Y	01111000	opcode	1.00
+0141	000336	10 operand fetched	01101000	oprnd	950.
+0142	000336	10 false read	01100000	fread	1.00
+0143	00080C	00 data read	11110000	read	950.
+0144	00080D	0D data read	11110000	read	950.
+0145	00080D	0D false read	11100000	fread	1.00
+0146	000D04	FF data read	11110000	read	950.
+0147	000D05	FF data read	11110000	read	1.00
+0148*	000337	TRB 10	11111000	opcode	950.
+0149	000338	10 operand fetched	11101000	oprnd	1.00
+0150	000610	FE data read	11110000	read	950.
+0151	000611	7F data read	11110000	read	1.00
+0152	000611	7F false read	11100000	fread	1.12

State Listing _____ Date acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	[HLX]	ASM	[BIN]	[USP]	[Rel]
[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0153	000511	00 data written	10110000	write	960.
+0154	000510	00 data written	10110000	write	960.
+0155*	000339	ORA 10,X	11111000	opcode	1.00
+0156	00033A	10 operand fetched	01101000	oprnd	960.
+0157	00033A	10 false read	01100000	fread	1.00
+0158	000587	20 data read	01110000	read	960.
+0159	000588	3B data read	01110000	read	1.00
+0160*	00033B	ASL 10,X	01111000	opcode	960.
+0161	00033C	10 operand fetched	01101000	oprnd	960.
+0162	00033C	10 false read	01100000	fread	1.00
+0163	000587	20 data read	01110000	read	960.
+0164	000588	3B data read	01110000	read	1.00
+0165	000588	3B false read	01100000	fread	960.
+0166	000588	76 data written	10110000	write	1.00
+0167	000587	40 data written	10110000	write	960.
+0168*	00033D	ORA [10],Y	11111000	opcode	1.00
+0169	00033E	10 operand fetched	11101000	oprnd	960.
+0170	000510	00 data read	11110000	read	1.00
+0171	000511	00 data read	11110000	read	960.
+0172	000512	0D data read	11110000	read	960.
+0173	0D0004	F2 data read	11110000	read	1.00
+0174	0D0005	0D data read	11110000	read	960.
+0175*	00033F	ORA FFFF,Y	11111000	opcode	1.00
+0176	000340	FF operand fetched	11101000	oprnd	960.
+0177	000341	FF operand fetched	11101000	oprnd	1.00
+0178	000341	FF false read	11100000	fread	960.
+0179	010003	0B data read	01110000	read	1.00
+0180	010004	F2 data read	01110000	read	960.
+0181*	000342	INC Accumulator	01111000	opcode	960.
+0182	000343	1C false read	01100000	fread	1.00
+0183*	000343	TRB FFFF	01111000	opcode	960.
+0184	000344	FF operand fetched	01101000	oprnd	1.00
+0185	000345	FF operand fetched	01101000	oprnd	960.
+0186	00FFFF	00 data read	01110000	read	1.00
+0187	010000	FE data read	01110000	read	960.
+0188	010000	FE false read	01100000	fread	1.00
+0189	010000	FE data written	10110000	write	960.
+0190	00FFFF	00 data written	10110000	write	960.
+0191*	000346	ORA FFFF,X	11111000	opcode	1.00
+0192	000347	FF operand fetched	11101000	oprnd	960.
+0193	000348	FF operand fetched	11101000	oprnd	1.00
+0194	000348	FF false read	11100000	fread	960.
+0195	010076	0E data read	11110000	read	1.00
+0196	010077	F0 data read	11110000	read	960.
+0197*	000349	ASL FFFF,X	11111000	opcode	1.00
+0198	00034A	FF operand fetched	11101000	oprnd	960.
+0199	00034B	FF operand fetched	11101000	oprnd	960.
+0200	00034B	FF false read	11100000	fread	1.00
+0201	010076	0E data read	11110000	read	960.
+0202	010077	F0 data read	01110000	read	1.00
+0203	010077	F0 false read	01100000	fread	960.

State Listing _____ Data acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T ₁
Base	[HLX]	ASM	[BIN]	[USR]	[Relc]
[Mer]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0204	010077	E0 data written	00110000	write	1.00
+0205	010076	1C data written	00110000	write	950.
+0206*	00034C	ORA FFFFFFF,X	01111000	opcde	1.00
+0207	00034D	FF operand fetched	01101000	oprnd	950.
+0208	00034E	FF operand fetched	01101000	oprnd	950.
+0209	00034F	FF operand fetched	01101000	oprnd	1.00
+0210	000076	1C data read	01110000	read	950.
+0211	000077	E0 data read	01110000	read	1.00
+0212*	000350	AND (10,X)	11111000	opcde	950.
+0213	000351	10 operand fetched	11101000	oprnd	1.00
+0214	000351	10 false read	11100000	fread	950.
+0215	000687	40 data read	11110000	read	1.00
+0216	000688	76 data read	11110000	read	950.
+0217	007640	20 data read	11110000	read	1.12
+0218	007641	00 data read	11110000	read	950.
+0219*	000352	AND 10,S	11111000	opcde	1.00
+0220	000353	10 operand fetched	11101000	oprnd	950.
+0221	000353	10 false read	11100000	fread	1.00
+0222	00080C	00 data read	11110000	read	950.
+0223	00080D	0D data read	11110000	read	1.00
+0224*	000354	BIT 10	11111000	opcde	950.
+0225	000355	10 operand fetched	01101000	oprnd	950.
+0226	000610	00 data read	01110000	read	1.00
+0227	000611	00 data read	01110000	read	950.
+0228*	000356	AND 10	01111000	opcde	1.00
+0229	000357	10 operand fetched	01101000	oprnd	950.
+0230	000610	00 data read	01110000	read	1.00
+0231	000611	00 data read	01110000	read	950.
+0232*	000358	ROL 10	01111000	opcde	1.00
+0233	000359	10 operand fetched	01101000	oprnd	950.
+0234	000610	00 data read	01110000	read	1.00
+0235	000611	00 data read	11110000	read	950.
+0236	000611	00 false read	11100000	fread	950.
+0237	000611	00 data written	10110000	write	1.00
+0238	000610	01 data written	10110000	write	950.
+0239*	00035A	AND [10]	11111000	opcde	1.00
+0240	00035B	10 operand fetched	11101000	oprnd	950.
+0241	000610	01 data read	11110000	read	1.00
+0242	000611	00 data read	11110000	read	950.
+0243	000612	0D data read	11110000	read	1.00
+0244	0D0001	86 data read	11110000	read	950.
+0245	0D0002	E0 data read	11110000	read	950.
+0246*	00035C	SEP #04	11111000	opcde	1.00
+0247	00035D	04 operand fetched	11101000	oprnd	950.
+0248	00035D	04 false read	01100000	fread	1.00
+0249*	00035E	PHP	01111000	opcde	950.
+0250	00035F	28 false read	01100000	fread	1.00
+0251	0007FC	06 data written	00110000	write	950.
+0252*	00035F	PLP	01111000	opcde	1.00
+0253	000360	29 false read	01100000	fread	950.
+0254	000360	29 false read	01100000	fread	950.

State Listing _____ Date acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USE]	[Rel]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0255	0007FC	06 data read	01110000	read	1.00
+0256*	000360	AND \$1177	01111000	opcde	960.
+0257	000361	77 operand fetched	01101000	oprnd	1.00
+0258	000362	11 operand fetched	11101000	oprnd	960.
+0259*	000363	ROL Accumulator	11111000	opcde	1.00
+0260	000364	2B false read	11100000	fread	960.
+0261*	000364	PLD	11111000	opcde	1.00
+0262	000365	2C false read	11100000	fread	960.
+0263	000365	2C false read	11100000	fread	960.
+0264	0007FD	00 data read	11110000	read	1.00
+0265	0007FE	06 data read	11110000	read	960.
+0266*	000365	BIT FFFF	11111000	opcde	1.00
+0267	000366	FF operand fetched	11101000	oprnd	960.
+0268	000367	FF operand fetched	11101000	oprnd	1.00
+0269	00FFFF	00 data read	11110000	read	960.
+0270	010000	FE data read	11110000	read	1.00
+0271*	000368	AND FFFF	01111000	opcde	960.
+0272	000369	FF operand fetched	01101000	oprnd	960.
+0273	00036A	FF operand fetched	01101000	oprnd	1.00
+0274	00FFFF	00 data read	01110000	read	960.
+0275	010000	FE data read	01110000	read	1.00
+0276*	00036B	ROL FFFF	01111000	opcde	960.
+0277	00036C	FF operand fetched	01101000	oprnd	1.00
+0278	00036D	FF operand fetched	01101000	oprnd	960.
+0279	00FFFF	00 data read	01110000	read	1.00
+0280	010000	FE data read	01110000	read	960.
+0281	010000	FE false read	11100000	fread	960.
+0282	010000	FC data written	10110000	write	1.12
+0283	00FFFF	00 data written	10110000	write	1.00
+0284*	00036E	AND FFFFFF	11111000	opcde	960.
+0285	00036F	FF operand fetched	11101000	oprnd	1.00
+0286	000370	FF operand fetched	11101000	oprnd	960.
+0287	000371	FF operand fetched	11101000	oprnd	1.00
+0288	FFFFFF	00 data read	11110000	read	960.
+0289	000000	FC data read	11110000	read	960.
+0290*	000372	AND (10),Y	11111000	opcde	1.00
+0291	000373	10 operand fetched	11101000	oprnd	960.
+0292	000610	01 data read	11110000	read	1.00
+0293	000611	00 data read	11110000	read	960.
+0294	000611	00 false read	01100000	fread	1.00
+0295	000005	0D data read	01110000	read	960.
+0296	000006	EC data read	01110000	read	1.00
+0297*	000374	AND (10)	01111000	opcde	960.
+0298	000375	10 operand fetched	01101000	oprnd	1.00
+0299	000610	01 data read	01110000	read	960.
+0300	000611	00 data read	01110000	read	960.
+0301	000001	86 data read	01110000	read	1.00
+0302	000002	E0 data read	01110000	read	960.
+0303*	000376	AND (10,S),Y	01111000	opcde	1.00
+0304	000377	10 operand fetched	11101000	oprnd	960.
+0305	000377	10 false read	11100000	fread	1.00

State Listing _____ Data acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0306	00080E	00 data read	11110000	read	960.
+0307	00080F	00 data read	11110000	read	1.00
+0308	00080F	00 false read	11100000	fread	960.
+0309	000D04	FF data read	11110000	read	960.
+0310	000D05	FF data read	11110000	read	1.00
+0311*	000378	BIT 10,X	11111000	opcde	960.
+0312	000379	10 operand fetched	11101000	oprnd	1.00
+0313	000379	10 false read	11100000	fread	960.
+0314	000687	40 data read	11110000	read	1.00
+0315	000688	76 data read	11110000	read	960.
+0316*	00037A	AND 10,X	11111000	opcde	1.00
+0317	00037B	10 operand fetched	01101000	oprnd	960.
+0318	00037B	10 false read	01100000	fread	960.
+0319	000687	40 data read	01110000	read	1.00
+0320	000688	76 data read	01110000	read	960.
+0321*	00037C	ROL 10,X	01111000	opcde	1.00
+0322	00037D	10 operand fetched	01101000	oprnd	960.
+0323	00037D	10 false read	01100000	fread	1.00
+0324	000687	40 data read	01110000	read	960.
+0325	000688	76 data read	01110000	read	1.00
+0326	000688	76 false read	01100000	fread	960.
+0327	000688	EC data written	10110000	write	960.
+0328	000687	81 data written	10110000	write	1.00
+0329*	00037E	AND [10],Y	11111000	opcde	960.
+0330	00037F	10 operand fetched	11101000	oprnd	1.00
+0331	000610	01 data read	11110000	read	960.
+0332	000611	00 data read	11110000	read	1.00
+0333	000612	00 data read	11110000	read	960.
+0334	000005	00 data read	11110000	read	1.00
+0335	000006	EC data read	11110000	read	960.
+0336*	000380	SEC	11111000	opcde	960.
+0337	000381	39 false read	11100000	fread	1.00
+0338*	000381	AND FFFF,Y	11111000	opcde	960.
+0339	000382	FF operand fetched	11101000	oprnd	1.00
+0340	000383	FF operand fetched	01101000	oprnd	960.
+0341	000383	FF false read	01100000	fread	1.00
+0342	010003	0B data read	01110000	read	960.
+0343	010004	F2 data read	01110000	read	1.00
+0344*	000384	DEC Accumulator	01111000	opcde	960.
+0345	000385	3B false read	01100000	fread	960.
+0346*	000385	TSC	01111000	opcde	1.00
+0347	000386	3C false read	01100000	fread	1.12
+0348*	000386	BIT FFFF,X	01111000	opcde	960.
+0349	000387	FF operand fetched	01101000	oprnd	1.00
+0350	000388	FF operand fetched	11101000	oprnd	960.
+0351	000388	FF false read	11100000	fread	1.00
+0352	010076	1C data read	11110000	read	960.
+0353	010077	E0 data read	11110000	read	960.
+0354*	000389	AND FFFF,X	11111000	opcde	1.00
+0355	00038A	FF operand fetched	11101000	oprnd	960.
+0356	00038B	FF operand fetched	11101000	oprnd	1.00

State Listing _____ Data acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAem 1.0	STAT	EXTMA	TI
Base	> [HEX]	[ASM]	[BIN]	[USP]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0357	00038B	FF false read	11100000	fread	950.
+0358	010076	1C data read	11110000	read	1.00
+0359	010077	E0 data read	11110000	read	950.
+0360*	00038C	ROL FFFF,X	11111000	opcode	1.00
+0361	00038D	FF operand fetched	11101000	oprnd	950.
+0362	00038E	FF operand fetched	11101000	oprnd	1.00
+0363	00038E	FF false read	01100000	fread	950.
+0364	010076	1C data read	01110000	read	950.
+0365	010077	E0 data read	01110000	read	1.00
+0366	010077	E0 false read	01100000	fread	950.
+0367	010077	C0 data written	00110000	write	1.00
+0368	010076	39 data written	00110000	write	950.
+0369*	00038F	AND FFFFFFF,X	01111000	opcode	1.00
+0370	000390	FF operand fetched	01101000	oprnd	950.
+0371	000391	FF operand fetched	01101000	oprnd	1.00
+0372	000392	FF operand fetched	01101000	oprnd	950.
+0373	000076	39 data read	11110000	read	950.
+0374	000077	C0 data read	11110000	read	1.00
+0375*	000393	EOR (10,X)	11111000	opcode	950.
+0376	000394	10 operand fetched	11101000	oprnd	1.00
+0377	000394	10 false read	11100000	fread	950.
+0378	000687	81 data read	11110000	read	1.00
+0379	000688	EC data read	11110000	read	950.
+0380	00EC81	FF data read	11110000	read	1.00
+0381	00EC82	FF data read	11110000	read	950.
+0382*	000395	WDM 00	11111000	opcode	950.
+0383	000396	00 operand fetched	11101000	oprnd	1.00
+0384*	000397	EOR 10,5	11111000	opcode	950.
+0385	000398	10 operand fetched	11101000	oprnd	1.00
+0386	000398	10 false read	01100000	fread	950.
+0387	00080E	00 data read	01110000	read	1.00
+0388	00080F	00 data read	01110000	read	950.
+0389*	000399	LDA #000F	01111000	opcode	950.
+0390	00039A	0F operand fetched	01101000	oprnd	1.00
+0391	00039B	00 operand fetched	01101000	oprnd	950.
+0392*	00039C	LDX #0004	01111000	opcode	1.00
+0393	00039D	04 operand fetched	01101000	oprnd	950.
+0394	00039E	00 operand fetched	01101000	oprnd	1.00
+0395*	00039F	LDY #0004	01111000	opcode	950.
+0396	0003A0	04 operand fetched	11101000	oprnd	1.00
+0397	0003A1	00 operand fetched	11101000	oprnd	950.
+0398*	0003A2	MVP FFEE block move	11111000	opcode	1.00
+0399	0003A3	EE operand fetched	11101000	oprnd	950.
+0400	0003A4	FF operand fetched	11101000	oprnd	950.
+0401	FF0004	F2 data read	11110000	read	1.00
+0402	EE0004	F2 data written	10110000	write	950.
+0403	EE0004	F2 false read	11100000	fread	1.00
+0404	EE0004	F2 false read	11100000	fread	950.
+0405*	0003A2	MVP FFEE block move	11111000	opcode	1.00
+0406	0003A3	EE operand fetched	11101000	oprnd	950.
+0407	0003A4	FF operand fetched	11101000	oprnd	1.00

State Listing _____ Data acquired Jun 12 1985 09:50

Label> ADDR Apple 65816 InvAsm 1.0 STAT EXTRA T1
Base > [HLX] [ASM] [RJN] [USF] [Relo

[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXYY]	
+0408	FF0003	0B data read	11110000	read	950.
+0409	EE0003	0B data written	00110000	write	950.
+0410	EE0003	0B false read	01100000	fread	1.00
+0411	EE0003	0B false read	01100000	fread	950.
+0412*	0003A2	MVP FFEE block move	01111000	opcode	1.12
+0413	0003A3	EE operand fetched	01101000	oprnd	1.00
+0414	0003A4	FF operand fetched	01101000	oprnd	950.
+0415	FF0002	E0 data read	01110000	read	1.00
+0416	EE0002	E0 data written	00110000	write	950.
+0417	EE0002	E0 false read	01100000	fread	950.
+0418	EE0002	E0 false read	01100000	fread	1.00
+0419*	0003A2	MVP FFEE block move	11111000	opcode	950.
+0420	0003A3	EE operand fetched	11101000	oprnd	1.00
+0421	0003A4	FF operand fetched	11101000	oprnd	950.
+0422	FF0001	86 data read	11110000	read	1.00
+0423	EE0001	86 data written	10110000	write	950.
+0424	EE0001	86 false read	11100000	fread	1.00
+0425	EE0001	86 false read	11100000	fread	950.
+0426*	0003A2	MVP FFEE block move	11111000	opcode	950.
+0427	0003A3	EE operand fetched	11101000	oprnd	1.00
+0428	0003A4	FF operand fetched	11101000	oprnd	950.
+0429	FF0000	FC data read	11110000	read	1.00
+0430	EE0000	FC data written	10110000	write	950.
+0431	EE0000	FC false read	11100000	fread	1.00
+0432	EE0000	FC false read	01100000	fread	950.
+0433*	0003A2	MVP FFEE block move	01111000	opcode	1.00
+0434	0003A3	EE operand fetched	01101000	oprnd	950.
+0435	0003A4	FF operand fetched	01101000	oprnd	1.00
+0436	FFFFFF	00 data read	01110000	read	950.
+0437	EEFFFF	00 data written	00110000	write	950.
+0438	EEFFFF	00 false read	01100000	fread	1.00
+0439	EEFFFF	00 false read	01100000	fread	950.
+0440*	0003A2	MVP FFEE block move	01111000	opcode	1.00
+0441	0003A3	EE operand fetched	01101000	oprnd	950.
+0442	0003A4	FF operand fetched	11101000	oprnd	1.00
+0443	FFFFFF	1A data read	11110000	read	950.
+0444	EEFFFF	1A data written	10110000	write	1.00
+0445	EEFFFF	1A false read	11100000	fread	950.
+0446	EEFFFF	1A false read	11100000	fread	950.
+0447*	0003A2	MVP FFEE block move	11111000	opcode	1.00
+0448	0003A3	EE operand fetched	11101000	oprnd	950.
+0449	0003A4	FF operand fetched	11101000	oprnd	1.00
+0450	FFFFFFD	8D data read	11110000	read	950.
+0451	EEFFFD	8D data written	10110000	write	1.00
+0452	EEFFFD	8D false read	11100000	fread	950.
+0453	EEFFFD	8D false read	11100000	fread	950.
+0454*	0003A2	MVP FFEE block move	11111000	opcode	1.00
+0455	0003A3	EE operand fetched	01101000	oprnd	950.
+0456	0003A4	FF operand fetched	01101000	oprnd	1.00
+0457	FFFFFFC	FF data read	01110000	read	950.
+0458	EEFFFC	FF data written	00110000	write	1.00

State Listing _____ Date acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTWA	T1
Base :	[HEX]	[ASM]	[BIN]	[USE]	[Rel]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0459	EEFFFC	FF false read	01100000	fread	950.
+0460	EEFFFC	FF false read	01100000	fread	1.00
+0461*	0003A2	MVP FFEE block move	01111000	opcode	950.
+0462	0003A3	EE operand fetched	01101000	oprnd	1.00
+0463	0003A4	FF operand fetched	01101000	oprnd	950.
+0464	FFFFFFB	D3 data read	01110000	read	950.
+0465	EEFFFB	D3 data written	10110000	write	1.00
+0466	EEFFFB	D3 false read	11100000	fread	950.
+0467	EEFFFB	D3 false read	11100000	fread	1.00
+0468*	0003A2	MVP FFEE block move	11111000	opcode	950.
+0469	0003A3	EE operand fetched	11101000	oprnd	1.00
+0470	0003A4	FF operand fetched	11101000	oprnd	950.
+0471	FFFFFFA	B2 data read	11110000	read	1.00
+0472	EEFFFA	B2 data written	10110000	write	950.
+0473	EEFFFA	B2 false read	11100000	fread	950.
+0474	EEFFFA	B2 false read	11100000	fread	1.00
+0475*	0003A2	MVP FFEE block move	11111000	opcode	950.
+0476	0003A3	EE operand fetched	11101000	oprnd	1.00
+0477	0003A4	FF operand fetched	11101000	oprnd	1.12
+0478	FFFFFF9	BD data read	01110000	read	950.
+0479	EEFFF9	BD data written	00110000	write	1.00
+0480	EEFFF9	BD false read	01100000	fread	950.
+0481	EEFFF9	BD false read	01100000	fread	950.
+0482*	0003A2	MVP FFEE block move	01111000	opcode	1.00
+0483	0003A3	EE operand fetched	01101000	oprnd	950.
+0484	0003A4	FF operand fetched	01101000	oprnd	1.00
+0485	FFFFFF8	7F data read	01110000	read	950.
+0486	EEFFF8	7F data written	00110000	write	1.00
+0487	EEFFF8	7F false read	01100000	fread	950.
+0488	EEFFF8	7F false read	11100000	fread	1.00-
+0489*	0003A2	MVP FFEE block move	11111000	opcode	950.
+0490	0003A3	EE operand fetched	11101000	oprnd	950.
+0491	0003A4	FF operand fetched	11101000	oprnd	1.00
+0492	FFFFFF7	00 data read	11110000	read	950.
+0493	EEFFF7	00 data written	10110000	write	1.00
+0494	EEFFF7	00 false read	11100000	fread	950.
+0495	EEFFF7	00 false read	11100000	fread	1.00
+0496*	0003A2	MVP FFEE block move	11111000	opcode	950.
+0497	0003A3	EE operand fetched	11101000	oprnd	1.00
+0498	0003A4	FF operand fetched	11101000	oprnd	950.
+0499	FFFFFF6	00 data read	11110000	read	1.00
+0500	EEFFF6	00 data written	10110000	write	950.
+0501	EEFFF6	00 false read	01100000	fread	950.
+0502	EEFFF6	00 false read	01100000	fread	1.00
+0503*	0003A2	MVP FFEE block move	01111000	opcode	950.
+0504	0003A3	EE operand fetched	01101000	oprnd	1.00
+0505	0003A4	FF operand fetched	01101000	oprnd	950.
+0506	FFFFFF5	00 data read	01110000	read	1.00
+0507	EEFFF5	00 data written	00110000	write	950.
+0508	EEFFF5	00 false read	01100000	fread	1.00
+0509	EEFFF5	00 false read	01100000	fread	950.

State Listing _____ Date acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Tj
Base >	[HEX]	[ASM]	[BIN]	[USE]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0510*	0003A5	EOR 10	01111000	opcde	950.
+0511	0003A6	10 operand fetched	11101000	oprnd	1.00
+0512	000610	01 data read	11110000	read	950.
+0513	000611	00 data read	11110000	read	1.00
+0514*	0003A7	LSR 10	11111000	opcde	950.
+0515	0003A8	10 operand fetched	11101000	oprnd	1.00
+0516	000610	01 data read	11110000	read	950.
+0517	000611	00 data read	11110000	read	950.
+0518	000611	00 false read	11100000	fread	1.00
+0519	000611	00 data written	10110000	write	950.
+0520	000610	00 data written	10110000	write	1.00
+0521*	0003A9	EOR [10]	11111000	opcde	950.
+0522	0003AA	10 operand fetched	11101000	oprnd	1.00
+0523	000610	00 data read	11110000	read	950.
+0524	000611	00 data read	01110000	read	1.00
+0525	000612	00 data read	01110000	read	950.
+0526	0D0000	FC data read	01110000	read	1.00
+0527	0D0001	86 data read	01110000	read	950.
+0528*	0003AB	PHA	01111000	opcde	950.
+0529	0003AC	49 false read	01100000	fread	1.00
+0530	0007FE	79 data written	00110000	write	950.
+0531	0007FD	02 data written	00110000	write	1.00
+0532*	0003AC	EOR \$1177	01111000	opcde	950.
+0533	0003AD	77 operand fetched	01101000	oprnd	1.00
+0534	0003AE	11 operand fetched	11101000	oprnd	950.
+0535*	0003AF	LSR Accumulator	11111000	opcde	1.00
+0536	0003B0	48 false read	11100000	fread	950.
+0537*	0003B0	PHK	11111000	opcde	950.
+0538	0003B1	4D false read	11100000	fread	1.00
+0539	0007FC	00 data written	10110000	write	950.
+0540*	0003B1	EOR FFFF	11111000	opcde	1.00
+0541	0003B2	FF operand fetched	11101000	oprnd	950.
+0542	0003B3	FF operand fetched	11101000	oprnd	1.12
+0543	EEFFFF	00 data read	11110000	read	1.00
+0544	EF0000	FC data read	11110000	read	950.
+0545*	0003B4	LSR FFFF	11111000	opcde	950.
+0546	0003B5	FF operand fetched	11101000	oprnd	1.00
+0547	0003B6	FF operand fetched	01101000	oprnd	950.
+0548	EEFFFF	00 data read	01110000	read	1.00
+0549	EF0000	FC data read	01110000	read	950.
+0550	EF0000	FC false read	01100000	fread	1.00
+0551	EF0000	7E data written	00110000	write	950.
+0552	EEFFFF	00 data written	00110000	write	1.00
+0553*	0003B7	EOR FFFFFFFF	01111000	opcde	950.
+0554	0003B8	FF operand fetched	01101000	oprnd	950.
+0555	0003B9	FF operand fetched	01101000	oprnd	1.00
+0556	0003BA	FF operand fetched	01101000	oprnd	950.
+0557	FFFFFF	00 data read	11110000	read	1.00
+0558	000000	7E data read	11110000	read	950.
+0559*	0003BB	EOR (10),Y	11111000	opcde	1.00
+0560	0003BC	10 operand fetched	11101000	oprnd	950.

State Listing _____ Date acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Tj
Base	[HLX]	ASM	[PIN]	[USR]	[Rela]
[Merl]	XXXXXX	Instructions	XXXXXXXXXX	XXXXXX	
+0561	000610	00 data read	11110000	read	1.00
+0562	000611	00 data read	11110000	read	950.
+0563	EE0611	00 false read	11100000	fread	1.00
+0564	EEFF4	00 data read	11110000	read	950.
+0565	EEFF5	00 data read	11110000	read	950.
+0566*	00038D	EOR (10)	11111000	opcode	1.00
+0567	00038E	10 operand fetched	11101000	oprnd	950.
+0568	000610	00 data read	11110000	read	1.00
+0569	000611	00 data read	11110000	read	950.
+0570	EE0000	7E data read	01110000	read	1.00
+0571	EE0001	86 data read	01110000	read	950.
+0572*	0003BF	EOR (10,S),Y	01111000	opcode	1.00
+0573	0003C0	10 operand fetched	01101000	oprnd	950.
+0574	0003C0	10 false read	01100000	fread	950.
+0575	000808	0C data read	01110000	read	1.00
+0576	00080C	00 data read	01110000	read	950.
+0577	00080C	00 false read	01100000	fread	1.00
+0578	EF0000	7E data read	01110000	read	950.
+0579	EF0001	86 data read	01110000	read	1.00
+0580*	0003C1	LDA #000F	11111000	opcode	950.
+0581	0003C2	0F operand fetched	11101000	oprnd	950.
+0582	0003C3	00 operand fetched	11101000	oprnd	1.00
+0583*	0003C4	LDX #FFFD	11111000	opcode	950.
+0584	0003C5	FD operand fetched	11101000	oprnd	1.00
+0585	0003C6	FF operand fetched	11101000	oprnd	950.
+0586*	0003C7	LDY #FFFD	11111000	opcode	1.00
+0587	0003C8	FD operand fetched	11101000	oprnd	950.
+0588	0003C9	FF operand fetched	11101000	oprnd	1.00
+0589*	0003CA	MVN FFEE block move	11111000	opcode	950.
+0590	0003CB	EE operand fetched	11101000	oprnd	1.00
+0591	0003CC	FF operand fetched	11101000	oprnd	950.
+0592	FFFFFD	8D data read	11110000	read	950.
+0593	EEFFFD	8D data written	00110000	write	1.00
+0594	EEFFFD	8D false read	01100000	fread	950.
+0595	EEFFFD	8D false read	01100000	fread	1.00
+0596*	0003CA	MVN FFEE block move	01111000	opcode	950.
+0597	0003CB	EE operand fetched	01101000	oprnd	1.00
+0598	0003CC	FF operand fetched	01101000	oprnd	950.
+0599	FFFFFE	1A data read	01110000	read	1.00
+0600	EEFFFE	1A data written	00110000	write	950.
+0601	EEFFFE	1A false read	01100000	fread	950.
+0602	EEFFFE	1A false read	01100000	fread	1.00
+0603*	0003CA	MVN FFEE block move	11111000	opcode	950.
+0604	0003CB	EE operand fetched	11101000	oprnd	1.00
+0605	0003CC	FF operand fetched	11101000	oprnd	950.
+0606	FFFFFF	00 data read	11110000	read	1.00
+0607	EEFFFF	00 data written	10110000	write	1.12
+0608	EEFFFF	00 false read	11100000	fread	950.
+0609	EEFFFF	00 false read	11100000	fread	950.
+0610*	0003CA	MVN FFEE block move	11111000	opcode	1.00
+0611	0003CB	EE operand fetched	11101000	oprnd	950.

State Listing _____ Data acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTFA	TI
Base	[HEX]	[ASM]	[BIN]	[DEF]	[Relc]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0612	0003CC	FF operand fetched	11101000	oprnd	1.00
+0613	FF0000	7E data read	11110000	read	960.
+0614	EE0000	7E data written	10110000	write	1.00
+0615	EE0000	7E false read	11100000	fread	960.
+0616	EE0000	7E false read	01100000	fread	1.00
+0617*	0003CA	MVN FFEE block move	01111000	opcde	960.
+0618	0003CB	EE operand fetched	01101000	oprnd	960.
+0619	0003CC	FF operand fetched	01101000	oprnd	1.00
+0620	FF0001	86 data read	01110000	read	960.
+0621	EE0001	86 data written	00110000	write	1.00
+0622	EE0001	86 false read	01100000	fread	960.
+0623	EE0001	86 false read	01100000	fread	1.00
+0624*	0003CA	MVN FFEE block move	01111000	opcde	960.
+0625	0003CB	EE operand fetched	01101000	oprnd	1.00
+0626	0003CC	FF operand fetched	11101000	oprnc	960.
+0627	FF0002	E0 data read	11110000	read	960.
+0628	EE0002	E0 data written	10110000	write	1.00
+0629	EE0002	E0 false read	11100000	fread	960.
+0630	EE0002	E0 false read	11100000	fread	1.00
+0631*	0003CA	MVN FFEE block move	11111000	opcde	960.
+0632	0003CB	EE operand fetched	11101000	oprnd	1.00
+0633	0003CC	FF operand fetched	11101000	oprnd	960.
+0634	FF0003	0B data read	11110000	read	1.00
+0635	EE0003	0B data written	10110000	write	960.
+0636	EE0003	0B false read	11100000	fread	1.00
+0637	EE0003	0B false read	11100000	fread	960.
+0638*	0003CA	MVN FFEE block move	11111000	opcde	960.
+0639	0003CB	EE operand fetched	01101000	oprnc	1.00
+0640	0003CC	FF operand fetched	01101000	oprnc	960.
+0641	FF0004	F2 data read	01110000	read	1.00
+0642	EE0004	F2 data written	00110000	write	960.
+0643	EE0004	F2 false read	01100000	fread	1.00
+0644	EE0004	F2 false read	01100000	fread	960.
+0645*	0003CA	MVN FFEE block move	01111000	opcde	960.
+0646	0003CB	EE operand fetched	01101000	oprnd	1.00
+0647	0003CC	FF operand fetched	01101000	oprnd	960.
+0648	FF0005	0D data read	01110000	read	1.00
+0649	EE0005	0D data written	10110000	write	960.
+0650	EE0005	0D false read	11100000	fread	1.00
+0651	EE0005	0D false read	11100000	fread	960.
+0652*	0003CA	MVN FFEE block move	11111000	opcde	1.00
+0653	0003CB	EE operand fetched	11101000	oprnd	960.
+0654	0003CC	FF operand fetched	11101000	oprnd	1.00
+0655	FF0006	EC data read	11110000	read	960.
+0656	EE0006	EC data written	10110000	write	960.
+0657	EE0006	EC false read	11100000	fread	1.00
+0658	EE0006	EC false read	11100000	fread	960.
+0659*	0003CA	MVN FFEE block move	11111000	opcde	1.00
+0660	0003CB	EE operand fetched	11101000	oprnd	960.
+0661	0003CC	FF operand fetched	11101000	oprnd	1.00
+0662	FF0007	B3 data read	01110000	read	960.

State Listing _____ Data acquired Jun 12 1985 09:50

Label	ADDR	Apple 6581E InvAsm 1.0	STAT	EXTRA	T1
Base	[HLX]	[ASM]	[BIN]	[USE]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0663	EE0007	B3 data written	00110000	write	1.00
+0664	EE0007	B3 false read	01100000	fread	960.
+0665	EE0007	B3 false read	01100000	fread	960.
+0666*	0003CA	MVN FFEE block move	01111000	opcde	1.00
+0667	0003CB	EE operand fetched	01101000	oprnd	960.
+0668	0003CC	FF operand fetched	01101000	oprnd	1.00
+0669	FF0008	86 data read	01110000	read	960.
+0670	EE0008	86 data written	00110000	write	1.00
+0671	EE0008	86 false read	01100000	fread	960.
+0672	EE0008	86 false read	11100000	fread	1.12
+0673*	0003CA	MVN FFEE block move	11111000	opcde	960.
+0674	0003CB	EE operand fetched	11101000	oprnd	1.00
+0675	0003CC	FF operand fetched	11101000	oprnd	960.
+0676	FF0009	88 data read	11110000	read	1.00
+0677	EE0009	88 data written	10110000	write	960.
+0678	EE0009	88 false read	11100000	fread	1.00
+0679	EE0009	88 false read	11100000	fread	960.
+0680*	0003CA	MVN FFEE block move	11111000	opcde	1.00
+0681	0003CB	EE operand fetched	11101000	oprnd	960.
+0682	0003CC	FF operand fetched	11101000	oprnd	960.
+0683	FF000A	75 data read	11110000	read	1.00
+0684	EE000A	75 data written	10110000	write	960.
+0685	EE000A	75 false read	01100000	fread	1.00
+0686	EE000A	75 false read	01100000	fread	960.
+0687*	0003CA	MVN FFEE block move	01111000	opcde	1.00
+0688	0003CB	EE operand fetched	01101000	oprnd	960.
+0689	0003CC	FF operand fetched	01101000	oprnd	1.00
+0690	FF000B	0C data read	01110000	read	960.
+0691	EE000B	0C data written	00110000	write	960.
+0692	EE000B	0C false read	01100000	fread	1.00
+0693	EE000B	0C false read	01100000	fread	960.
+0694*	0003CA	MVN FFEE block move	01111000	opcde	1.00
+0695	0003CB	EE operand fetched	11101000	oprnd	960.
+0696	0003CC	FF operand fetched	11101000	oprnd	1.00
+0697	FF000C	00 data read	11110000	read	960.
+0698	EE000C	00 data written	10110000	write	1.00
+0699	EE000C	00 false read	11100000	fread	960.
+0700	EE000C	00 false read	11100000	fread	1.00
+0701*	0003CD	EOR 10,X	11111000	opcde	960.
+0702	0003CE	10 operand fetched	11101000	oprnd	960.
+0703	0003CE	10 false read	11100000	fread	1.00
+0704	00061D	69 data read	11110000	read	960.
+0705	00061E	20 data read	11110000	read	1.00
+0706*	0003CF	LSR 10,X	11111000	opcde	960.
+0707	0003D0	10 operand fetched	11101000	oprnd	1.00
+0708	0003D0	10 false read	01100000	fread	960.
+0709	00061D	69 data read	01110000	read	960.
+0710	00061E	20 data read	01110000	read	1.00
+0711	00061E	20 false read	01100000	fread	960.
+0712	00061E	10 data written	00110000	write	1.00
+0713	00061D	34 data written	00110000	write	960.

State Listing _____ Date acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HLX]	[ALM]	[BIN]	[USP]	[Rc]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0714	0003D1	EOR (10),Y	01111000	opcde	1.00
+0715	0003D2	10 operand fetched	01101000	oprnd	950.
+0716	000610	00 data read	01110000	read	1.00
+0717	000611	00 data read	01110000	read	950.
+0718	000612	0D data read	11110000	read	1.00
+0719	0D000D	0D data read	11110000	read	950.
+0720	0D000E	00 data read	11110000	read	950.
+0721	0003D3	CLI	11111000	opcde	1.00
+0722	0003D4	78 false read	11100000	fread	950.
+0723	0003D4	SEI	11111000	opcde	1.00
+0724	0003D5	59 false read	11100000	fread	950.
+0725	0003D5	EOR FFFF,Y	11111000	opcde	950.
+0726	0003D6	FF operand fetched	11101000	oprnd	1.00
+0727	0003D7	FF operand fetched	11101000	oprnd	1.00
+0728	EE03D7	FF false read	11100000	fread	950.
+0729	EF000C	00 data read	11110000	read	950.
+0730	EF000D	0D data read	11110000	read	1.00
+0731	0003D8	PHY	01111000	opcde	950.
+0732	0003D9	5D false read	01100000	fread	1.00
+0733	0007FB	00 data written	00110000	write	950.
+0734	0007FA	0D data written	00110000	write	1.00
+0735	0003D9	EOR FFFF,X	01111000	opcde	950.
+0736	0003DA	FF operand fetched	01101000	oprnd	1.00
+0737	0003DB	FF operand fetched	01101000	oprnd	1.00
+0738	EE03DB	FF false read	01100000	fread	1.00
+0739	EF000C	00 data read	01110000	read	950.
+0740	EF000D	0D data read	01110000	read	1.00
+0741	0003DC	LSR FFFF,X	11111000	opcde	950.
+0742	0003DD	FF operand fetched	11101000	oprnd	1.00
+0743	0003DE	FF operand fetched	11101000	oprnd	950.
+0744	EE03DE	FF false read	11100000	fread	1.00
+0745	EF000C	00 data read	11110000	read	950.
+0746	EF000D	0D data read	11110000	read	950.
+0747	EF000D	0D false read	11100000	fread	1.00
+0748	EF000D	06 data written	10110000	write	950.
+0749	EF000C	80 data written	10110000	write	1.00
+0750	0003DF	EOR FFFFFFF,X	11111000	opcde	950.
+0751	0003E0	FF operand fetched	11101000	oprnd	1.00
+0752	0003E1	FF operand fetched	11101000	oprnd	950.
+0753	0003E2	FF operand fetched	11101000	oprnd	1.00
+0754	00000C	80 data read	01110000	read	950.
+0755	00000D	06 data read	01110000	read	950.
+0756	0003E3	ADC (10,X)	01111000	opcde	1.00
+0757	0003E4	10 operand fetched	01101000	oprnd	950.
+0758	0003E4	10 false read	01100000	fread	1.00
+0759	00061D	34 data read	01110000	read	950.
+0760	00061E	10 data read	01110000	read	1.00
+0761	EE1034	0F data read	01110000	read	950.
+0762	EE1035	F0 data read	01110000	read	1.00
+0763	0003E5	PER 1177 (delta=+008F)	01111000	opcde	950.
+0764	0003E6	8F operand fetched	11101000	oprnd	1.00

State Listing _____ Data acquired Jun 12 1985 09:50

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T ₁
Base	[HLX]	[ASM]	[BIN]	[USP]	[Rel]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0765	0003E7	0D operand fetched	11101000	oprnd	960.
+0766	0003E7	0D false read	11100000	fread	960.
+0767	0007F9	11 data written	10110000	write	1.00
+0768	0007F8	77 data written	10110000	write	960.
+0769*	0003E8	ADC 10,S	11111000	opcde	1.00
+0770	0003E9	10 operand fetched	11101000	oprnd	960.
+0771	0003E9	10 false read	11100000	fread	1.00
+0772	000807	83 data read	11110000	read	960.
+0773	000808	86 data read	11110000	read	960.
+0774*	0003EA	STZ 10	11111000	opcde	1.00
+0775	0003EB	10 operand fetched	11101000	oprnd	960.
+0776	000610	00 data written	10110000	write	1.00
+0777	000611	00 data written	00110000	write	960.
+0778*	0003EC	ADC 10	01111000	opcde	1.00
+0779	0003ED	10 operand fetched	01101000	oprnd	960.
+0780	000610	00 data read	01110000	read	1.00
+0781	000611	00 data read	01110000	read	960.
+0782*	0003EE	ROR 10	01111000	opcde	1.00
+0783	0003EF	10 operand fetched	01101000	oprnd	960.
+0784	000610	00 data read	01110000	read	960.
+0785	000611	00 data read	01110000	read	1.00
+0786	000611	00 false read	01100000	fread	960.
+0787	000611	00 data written	10110000	write	1.00
+0788	000610	00 data written	10110000	write	960.
+0789*	0003F0	ADC [10]	11111000	opcde	960.
+0790	0003F1	10 operand fetched	11101000	oprnd	1.00
+0791	000610	00 data read	11110000	read	1.00
+0792	000611	00 data read	11110000	read	960.
+0793	000612	0D data read	11110000	read	960.
+0794	0D0000	7E data read	11110000	read	1.00
+0795	0D0001	86 data read	11110000	read	960.
+0796*	0003F2	PHA	11111000	opcde	1.00
+0797	0003F3	68 false read	11100000	fread	960.
+0798	0007F7	D6 data written	10110000	write	1.00
+0799	0007F6	5D data written	10110000	write	960.
+0800*	0003F3	PLA	01111000	opcde	1.00
+0801	0003F4	69 false read	01100000	fread	960.
+0802	0003F4	69 false read	01100000	fread	1.12
+0803	0007F6	5D data read	01110000	read	960.
+0804	0007F7	D6 data read	01110000	read	1.00
+0805*	0003F4	ADC \$1177	01111000	opcde	960.
+0806	0003F5	77 operand fetched	01101000	oprnd	1.00
+0807	0003F6	11 operand fetched	01101000	oprnd	960.
+0808*	0003F7	ROR Accumulator	01111000	opcde	1.00
+0809	0003F8	6D false read	01100000	fread	960.
+0810*	0003F8	ADC FFFF	11111000	opcde	960.
+0811	0003F9	FF operand fetched	11101000	oprnd	1.00
+0812	0003FA	FF operand fetched	11101000	oprnd	960.
+0813	EEFFFF	00 data read	11110000	read	1.00
+0814	EF0000	7E data read	11110000	read	960.
+0815*	0003FB	ROR FFFF	11111000	opcde	1.00

State Listing _____ Date acquired Jun 12 1985 09:50

Label >	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base >	[HEX]	ASM	[BIN]	[USP]	[Re]e
[Mar]t	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0816	0003FC	FF operand fetched	11101000	oprnd	960.
+0817	0003FD	FF operand fetched	11101000	oprnd	1.00
+0818	EEFFFF	00 data read	11110000	read	960.
+0819	EF0000	7E data read	11110000	read	960.
+0820	EF0000	7E false read	11100000	fread	1.00
+0821	EF0000	3F data written	10110000	write	960.
+0822	EEFFFF	00 data written	10110000	write	1.00
+0823*	0003FE	ADC FFFFFF	01111000	opcde	960.
+0824	0003FF	FF operand fetched	01101000	oprnd	1.00
+0825	000400	FF operand fetched	01101000	oprnd	960.
+0826	000401	FF operand fetched	01101000	oprnd	1.00
+0827	FFFFFF	00 data read	01110000	read	960.
+0828	000000	3F data read	01110000	read	1.00
+0829*	000402	ADC (10),Y	01111000	opcde	960.
+0830	000403	10 operand fetched	01101000	oprnd	960.
+0831	000610	00 data read	01110000	read	1.00
+0832	000611	00 data read	01110000	read	960.
+0833	EE0611	00 false read	11100000	fread	1.00
+0834	EE000D	06 data read	11110000	read	960.
+0835	EE000E	00 data read	11110000	read	1.00
+0836*	000404	ADC (10)	11111000	opcde	960.
+0837	000405	10 operand fetched	11101000	oprnd	960.
+0838	000610	00 data read	11110000	read	1.00
+0839	000611	00 data read	11110000	read	960.
+0840	EE0000	3F data read	11110000	read	1.00
+0841	EE0001	86 data read	11110000	read	960.
+0842*	000406	ADC (10,S),Y	11111000	opcde	1.00
+0843	000407	10 operand fetched	11101000	oprnd	960.
+0844	000407	10 false read	11100000	fread	1.00
+0845	000807	B3 data read	11110000	read	960.
+0846	000808	86 data read	01110000	read	960.
+0847	000808	86 false read	01100000	fread	1.00
+0848	EE86C0	54 data read	01110000	read	960.
+0849	EE86C1	54 data read	01110000	read	1.00
+0850*	000408	STZ 10,X	01111000	opcde	960.
+0851	000409	10 operand fetched	01101000	oprnd	1.00
+0852	000409	10 false read	01100000	fread	960.
+0853	00061D	00 data written	00110000	write	960.
+0854	00061E	00 data written	00110000	write	1.00
+0855*	00040A	ADC 10,X	01111000	opcde	1.00
+0856	00040B	10 operand fetched	11101000	oprnd	960.
+0857	00040B	10 false read	11100000	fread	960.
+0858	00061D	00 data read	11110000	read	1.00
+0859	00061E	00 data read	11110000	read	960.
+0860*	00040C	ROR 10,X	11111000	opcde	1.00
+0861	00040D	10 operand fetched	11101000	oprnd	960.
+0862	00040D	10 false read	11100000	fread	1.00
+0863	00061D	00 data read	11110000	read	960.
+0864	00061E	00 data read	11110000	read	1.00
+0865	00061E	00 false read	11100000	fread	960.
+0866	00061E	00 data written	10110000	write	960.

State Listing_____Data acquired Jun 12 1985 09:50

Label>	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0867	00061D	00 data written	10110000	write	1.12
+0868*	00040E	ADC [10],Y	11111000	opcde	1.00
+0869	00040F	10 operand fetched	01101000	oprnd	950.
+0870	000610	00 data read	01110000	read	1.00
+0871	000611	00 data read	01110000	read	950.
+0872	000612	0D data read	01110000	read	1.00
+0873	0D0000	05 data read	01110000	read	950.
+0874	0D000E	00 data read	01110000	read	950.
+0875*	000410	ADC FFFF,Y	01111000	opcde	1.00
+0876	000411	FF operand fetched	01101000	oprnd	950.
+0877	000412	FF operand fetched	01101000	oprnd	1.00
+0878	EE0412	FF false read	01100000	fread	950.
+0879	EF000C	80 data read	11110000	read	1.00
+0880	EF000D	05 data read	11110000	read	950.
+0881*	000413	PHY	11111000	opcde	1.00
+0882	000414	7A false read	11100000	fread	950.
+0883	0007F7	00 data written	10110000	write	950.
+0884	0007F6	0D data written	10110000	write	1.00
+0885*	000414	PLY	11111000	opcde	950.
+0886	000415	7B false read	11100000	fread	1.00
+0887	000415	7B false read	11100000	fread	950.
+0888	0007F6	0D data read	11110000	read	1.00
+0889	0007F7	00 data read	11110000	read	950.
+0890*	000415	TDC	11111000	opcde	1.00
+0891	000416	7D false read	11100000	fread	950.
+0892*	000416	ADC FFFF,X	01111000	opcde	1.00
+0893	000417	FF operand fetched	01101000	oprnd	950.
+0894	000418	FF operand fetched	01101000	oprnd	950.
+0895	EE0418	FF false read	01100000	fread	1.00
+0896	EF000C	80 data read	01110000	read	950.
+0897	EF000D	05 data read	01110000	read	1.00
+0898*	000419	ROR FFFF,X	01111000	opcde	950.
+0899	00041A	FF operand fetched	01101000	oprnd	1.00
+0900	00041B	FF operand fetched	01101000	oprnd	950.
+0901	EE041B	FF false read	01100000	fread	950.
+0902	EF000C	80 data read	11110000	read	1.00
+0903	EF000D	05 data read	11110000	read	950.
+0904	EF000D	05 false read	11100000	fread	1.00
+0905	EF000D	03 data written	10110000	write	950.
+0906	EF000C	40 data written	10110000	write	1.00
+0907*	00041C	ADC FFFFFFF,X	11111000	opcde	950.
+0908	00041D	FF operand fetched	11101000	oprnd	1.00
+0909	00041E	FF operand fetched	11101000	oprnd	950.
+0910	00041F	FF operand fetched	11101000	oprnd	950.
+0911	00000C	40 data read	11110000	read	1.00
+0912	00000D	03 data read	11110000	read	950.
+0913*	000420	STA (10,X)	11111000	opcde	1.00
+0914	000421	10 operand fetched	11101000	oprnd	950.
+0915	000421	10 false read	01100000	fread	1.00
+0916	00061D	00 data read	01110000	read	950.
+0917	00061E	00 data read	01110000	read	950.

State Listing_____Data acquired Jun 12 1985 09:50

Label>	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0918	EE0000	C0 data written	00110000	write	1.00
+0919	EE0001	0F data written	00110000	write	950.
+0920*	000422	STA 10,S	01111000	opcode	1.00
+0921	000423	10 operand fetched	01101000	oprnd	950.
+0922	000423	10 false read	01100000	fread	1.00
+0923	000807	C0 data written	00110000	write	950.
+0924	000808	0F data written	00110000	write	1.00
+0925*	000424	STY 10	11111000	opcode	950.
+0926	000425	10 operand fetched	11101000	oprnd	1.00
+0927	000610	00 data written	10110000	write	950.
+0928	000611	00 data written	10110000	write	1.00
+0929*	000426	STA 10	11111000	opcode	950.
+0930	000427	10 operand fetched	11101000	oprnd	950.
+0931	000610	C0 data written	10110000	write	1.00
+0932	000611	0F data written	10110000	write	1.12
+0933*	000428	STX 10	11111000	opcode	950.
+0934	000429	10 operand fetched	11101000	oprnd	1.00
+0935	000610	00 data written	10110000	write	950.
+0936	000611	00 data written	10110000	write	950.
+0937*	00042A	STA [10]	11111000	opcode	1.00
+0938	00042B	10 operand fetched	01101000	oprnd	950.
+0939	000610	00 data read	01110000	read	1.00
+0940	000611	00 data read	01110000	read	950.
+0941	000612	00 data read	01110000	read	1.00
+0942	000000	C0 data written	00110000	write	950.
+0943	00000E	0F data written	00110000	write	1.00
+0944*	00042C	DEY	01111000	opcode	950.
+0945	00042D	89 false read	01100000	fread	1.00
+0946*	00042D	BIT \$1177	01111000	opcode	950.
+0947	00042E	77 operand fetched	01101000	oprnd	950.
+0948	00042F	11 operand fetched	11101000	oprnd	1.00
+0949*	000430	TXA	11111000	opcode	950.
+0950	000431	8B false read	11100000	fread	1.00
+0951*	000431	PHB	11111000	opcode	950.
+0952	000432	8C false read	11100000	fread	1.00
+0953	0007F7	EE data written	10110000	write	950.
+0954*	000432	STY FFFF	11111000	opcode	1.00
+0955	000433	FF operand fetched	11101000	oprnd	950.
+0956	000434	FF operand fetched	11101000	oprnd	1.00
+0957	EEFFFF	0C data written	10110000	write	950.
+0958	EF0000	00 data written	10110000	write	950.
+0959*	000435	STA FFFF	11111000	opcode	1.00
+0960	000436	FF operand fetched	11101000	oprnd	950.
+0961	000437	FF operand fetched	01101000	oprnd	1.00
+0962	EEFFFF	0D data written	00110000	write	950.
+0963	EF0000	00 data written	00110000	write	1.00
+0964*	000438	STX FFFF	01111000	opcode	950.
+0965	000439	FF operand fetched	01101000	oprnd	950.
+0966	00043A	FF operand fetched	01101000	oprnd	1.00
+0967	EEFFFF	0D data written	00110000	write	950.
+0968	EF0000	00 data written	00110000	write	1.00

State Listing _____ Date acquired Jun 12 1985 09:50

Label	ADDR	Apple 65016 InvAsm 1.0	STAT	EXTFA	Rela
Base >	[HEX]	[ASM]	[BIN]	[USP]	
[Mem]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0969	00043B	STA FFFFFF	01111000	opcdc	950.
+0970	00043C	FF operand fetched	01101000	oprnd	1.00
+0971	00043D	FF operand fetched	11101000	oprnd	950.
+0972	00043E	FF operand fetched	11101000	oprnd	1.00
+0973	FFFFFF	0D data written	10110000	write	950.
+0974	000000	00 data written	10110000	write	950.
+0975	00043F	STA (10),Y	11111000	opcdc	1.00
+0976	000440	10 operand fetched	11101000	oprnd	950.
+0977	000610	0D data read	11110000	read	1.00
+0978	000611	00 data read	11110000	read	950.
+0979	EE0611	00 false read	11100000	fread	1.00
+0980	EE0019	0D data written	10110000	write	950.
+0981	EE001A	00 data written	10110000	write	950.
+0982	000441	STA (10)	11111000	opcdc	1.00
+0983	000442	10 operand fetched	11101000	oprnd	950.
+0984	000610	0D data read	01110000	read	1.00
+0985	000611	00 data read	01110000	read	950.
+0986	EE000D	0D data written	00110000	write	1.00
+0987	EE000E	00 data written	00110000	write	950.
+0988	000443	STA (10,S),Y	01111000	opcdc	1.00
+0989	000444	10 operand fetched	01101000	oprnd	950.
+0990	000444	10 false read	01100000	fread	1.00
+0991	000806	EC data read	01110000	read	950.
+0992	000807	C0 data read	01110000	read	1.00
+0993	000807	C0 false read	01100000	fread	950.
+0994	EE00F8	0D data written	10110000	write	950.
+0995	EE00F9	00 data written	10110000	write	1.00
+0996	000445	STY 10,X	11111000	opcdc	950.
+0997	000446	10 operand fetched	11101000	oprnd	1.12
+0998	000446	10 false read	11100000	fread	1.00
+0999	00061D	0C data written	10110000	write	950.
+1000	00061E	00 data written	10110000	write	950.
+1001	000447	STA 10,X	11111000	opcdc	1.00
+1002	000448	10 operand fetched	11101000	oprnd	950.
+1003	000448	10 false read	11100000	fread	1.00
+1004	00061D	0D data written	10110000	write	950.
+1005	00061E	00 data written	10110000	write	1.00
+1006	000449	STX 10,Y	11111000	opcdc	950.
+1007	00044A	10 operand fetched	01101000	oprnd	1.00
+1008	00044A	10 false read	01100000	fread	950.
+1009	00061C	0D data written	00110000	write	950.
+1010	00061D	00 data written	00110000	write	1.00
+1011	00044B	STA [10],Y	01111000	opcdc	950.
+1012	00044C	10 operand fetched	01101000	oprnd	1.00
+1013	000610	0D data read	01110000	read	950.
+1014	000611	00 data read	01110000	read	1.00
+1015	000612	0D data read	01110000	read	950.
+1016	0D0019	0D data written	00110000	write	1.00
+1017	0D001A	00 data written	10110000	write	950.
+1018	00044D	TYA	11111000	opcdc	1.00
+1019	00044E	99 false read	11100000	fread	950.

State Listing _____ Data acquired Jun 12 1985 10:05

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HLX]	ASM	[BIN]	[USE]	[Rel]
[Mar]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0001*	00044E	STA FFFF,Y	11111000	opcde	960.
+0002	00044F	FF operand fetched	11101000	oprnd	1.00
+0003	000450	FF operand fetched	11101000	oprnd	960.
+0004	EE0450	FF false read	11100000	fread	1.00
+0005	EF000B	0C data written	10110000	write	960.
+0006	EF000C	00 data written	10110000	write	1.00
+0007*	000451	TSX	11111000	opcde	960.
+0008	000452	9A false read	11100000	fread	1.00
+0009*	000452	TXS	11111000	opcde	960.
+0010	000453	9B false read	11100000	fread	960.
+0011*	000453	TXY	01111000	opcde	1.00
+0012	000454	9C false read	01100000	fread	960.
+0013*	000454	STZ FFFF	01111000	opcde	1.00
+0014	000455	FF operand fetched	01101000	oprnd	960.
+0015	000456	FF operand fetched	01101000	oprnd	1.00
+0016	EEFFFF	00 data written	00110000	write	960.
+0017	EF0000	00 data written	00110000	write	1.00
+0018*	000457	STA FFFF,X	01111000	opcde	960.
+0019	000458	FF operand fetched	01101000	oprnd	960.
+0020	000459	FF operand fetched	01101000	oprnd	1.00
+0021	EE0459	FF false read	11100000	fread	960.
+0022	EF07F5	0C data written	10110000	write	1.00
+0023	EF07F6	00 data written	10110000	write	960.
+0024*	00045A	STZ FFFF,X	11111000	opcde	1.00
+0025	00045B	FF operand fetched	11101000	oprnd	960.
+0026	00045C	FF operand fetched	11101000	oprnd	1.00
+0027	EE045C	FF false read	11100000	fread	960.
+0028	EF07F5	00 data written	10110000	write	960.
+0029	EF07F6	00 data written	10110000	write	1.00
+0030*	00045D	STA FFFFF,X	11111000	opcde	960.
+0031	00045E	FF operand fetched	11101000	oprnd	1.00
+0032	00045F	FF operand fetched	11101000	oprnd	960.
+0033	000460	FF operand fetched	11101000	oprnd	1.00
+0034	0007F5	0C data written	00110000	write	960.
+0035	0007F6	00 data written	00110000	write	1.00
+0036*	000461	LDY \$1177	01111000	opcde	960.
+0037	000462	77 operand fetched	01101000	oprnd	960.
+0038	000463	11 operand fetched	01101000	oprnd	1.00
+0039*	000464	LDA (10,X)	01111000	opcde	960.
+0040	000465	10 operand fetched	01101000	oprnd	1.12
+0041	000465	10 false read	01100000	fread	1.00
+0042	000E06	64 data read	01110000	read	960.
+0043	000E07	65 data read	01110000	read	1.00
+0044	EE6564	EE data read	11110000	read	960.
+0045	EE6565	EE data read	11110000	read	1.00
+0046*	000466	LDX \$1177	11111000	opcde	960.
+0047	000467	77 operand fetched	11101000	oprnd	960.
+0048	000468	11 operand fetched	11101000	oprnd	1.00
+0049*	000469	LDA 10,S	11111000	opcde	960.
+0050	00046A	10 operand fetched	11101000	oprnd	1.00
+0051	00046A	10 false read	11100000	fread	960.

State Listing _____ Data acquired Jun 12 1985 10:05

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base >	[HEX]	[ASM]	[BIN]	[USE]	[Rele]
[Mar.]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0052	000806	EC data read	11110000	read	1.00
+0053	000807	C0 data read	11110000	read	960.
+0054*	00046B	LDY 10	11111000	opcde	960.
+0055	00046C	10 operand fetched	11101000	oprnd	1.00
+0056	000610	0D data read	11110000	read	960.
+0057	000611	00 data read	01110000	read	1.00
+0058*	00046D	LDA 10	01111000	opcde	960.
+0059	00046E	10 operand fetched	01101000	oprnd	1.00
+0060	000610	0D data read	01110000	read	960.
+0061	000611	00 data read	01110000	read	1.00
+0062*	00046F	LDX 10	01111000	opcde	960.
+0063	000470	10 operand fetched	01101000	oprnd	1.00
+0064	000610	0D data read	01110000	read	960.
+0065	000611	00 data read	01110000	read	960.
+0066*	000471	LDA [10]	01111000	opcde	1.00
+0067	000472	10 operand fetched	11101000	oprnd	960.
+0068	000610	0D data read	11110000	read	1.00
+0069	000611	00 data read	11110000	read	960.
+0070	000612	0D data read	11110000	read	1.00
+0071	000000	0D data read	11110000	read	960.
+0072	00000E	00 data read	11110000	read	1.00
+0073*	000473	TAY	11111000	opcde	960.
+0074	000474	AA false read	11100000	fread	960.
+0075*	000474	TAX	11111000	opcde	1.00
+0076	000475	AB false read	11100000	fread	960.
+0077*	000475	PLB	11111000	opcde	1.00
+0078	000476	AC false read	11100000	fread	960.
+0079	000476	AC false read	11100000	fread	1.00
+0080	0007F7	EE data read	01110000	read	960.
+0081*	000476	LDY FFFF	01111000	opcde	1.00
+0082	000477	FF operand fetched	01101000	oprnd	960.
+0083	000478	FF operand fetched	01101000	oprnd	960.
+0084	EEFFFF	00 data read	01110000	read	1.00
+0085	EF0000	00 data read	01110000	read	960.
+0086*	000479	LDA FFFF	01111000	opcde	1.00
+0087	00047A	FF operand fetched	01101000	oprnd	960.
+0088	00047B	FF operand fetched	01101000	oprnd	1.00
+0089	EEFFFF	00 data read	01110000	read	960.
+0090	EF0000	00 data read	11110000	read	1.00
+0091*	00047C	LDX FFFF	11111000	opcde	960.
+0092	00047D	FF operand fetched	11101000	oprnd	960.
+0093	00047E	FF operand fetched	11101000	oprnd	1.00
+0094	EEFFFF	00 data read	11110000	read	960.
+0095	EF0000	00 data read	11110000	read	1.00
+0096*	00047F	LDA FFFFFF	11111000	opcde	960.
+0097	000480	FF operand fetched	11101000	oprnd	1.00
+0098	000481	FF operand fetched	11101000	oprnd	960.
+0099	000482	FF operand fetched	11101000	oprnd	1.00
+0100	FFFFFF	00 data read	11110000	read	960.
+0101	000000	00 data read	11110000	read	960.
+0102*	000483	LDA (10),Y	11111000	opcde	1.00

State Listing _____ Data acquired Jun 12 1985 10:05

Label	ADDR	Apple 6581E InVAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[BIN]	[USR]	[Rel]
[Hex]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0103	000484	10 operand fetched	01101000	oprnd	950.
+0104	000510	0D data read	01110000	read	1.00
+0105	000511	00 data read	01110000	read	1.12
+0106	EE0511	00 false read	01100000	fread	950.
+0107	EE000D	0D data read	01110000	read	1.00
+0108	EE000E	00 data read	01110000	read	950.
+0109*	000485	LDA (10)	01111000	opcde	1.00
+0110	000486	10 operand fetched	01101000	oprnd	950.
+0111	000510	0D data read	01110000	read	950.
+0112	000511	00 data read	01110000	read	1.00
+0113	EE000D	0D data read	11110000	read	950.
+0114	EE000E	00 data read	11110000	read	1.00
+0115*	000487	LDA (10,S),Y	11111000	opcde	950.
+0116	000488	10 operand fetched	11101000	oprnd	1.00
+0117	00048E	10 false read	11100000	fread	950.
+0118	000807	C0 data read	11110000	read	950.
+0119	000808	0F data read	11110000	read	1.00
+0120	000808	0F false read	11100000	fread	950.
+0121	EE0FC0	29 data read	11110000	read	1.00
+0122	EE0FC1	20 data read	11110000	read	950.
+0123*	000489	LDY 10,X	11111000	opcde	1.00
+0124	00048A	10 operand fetched	11101000	oprnd	950.
+0125	00048A	10 false read	11100000	fread	1.00
+0126	000510	0D data read	01110000	read	950.
+0127	000511	00 data read	01110000	read	1.00
+0128*	00048B	LDA 10,X	01111000	opcde	950.
+0129	00048C	10 operand fetched	01101000	oprnd	950.
+0130	00048C	10 false read	01100000	fread	1.00
+0131	000510	0D data read	01110000	read	950.
+0132	000511	00 data read	01110000	read	1.00
+0133*	00048D	LDX 10,Y	01111000	opcde	950.
+0134	00048E	10 operand fetched	01101000	oprnd	1.00
+0135	00048E	10 false read	01100000	fread	950.
+0136	00051D	00 data read	11110000	read	1.00
+0137	00051E	00 data read	11110000	read	950.
+0138*	00048F	LDA [10],Y	11111000	opcde	950.
+0139	000490	10 operand fetched	11101000	oprnd	1.00
+0140	000510	0D data read	11110000	read	950.
+0141	000511	00 data read	11110000	read	1.00
+0142	000512	0D data read	11110000	read	950.
+0143	0D001A	00 data read	11110000	read	1.00
+0144	0D001B	0D data read	11110000	read	950.
+0145*	000491	CLV	11111000	opcde	1.00
+0146	000492	B9 false read	11100000	fread	950.
+0147*	000492	LDA FFFF,Y	11111000	opcde	950.
+0148	000493	FF operand fetched	11101000	oprnd	1.00
+0149	000494	FF operand fetched	01101000	oprnd	950.
+0150	EE0494	FF false read	01100000	fread	1.00
+0151	EF000C	00 data read	01110000	read	950.
+0152	EF000D	0D data read	01110000	read	1.00
+0153*	000495	TYX	01111000	opcde	950.

State Listing _____ Data acquired Jun 12 1985 10:05

Label	ADDR	Apple 65616 InvAsm 1.0	STAT	EXTRA	Tj
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rc]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0154	000496	BC false read	01100000	fread	1.00
+0155*	000496	LDY FFFF,X	01111000	opcode	960.
+0156	000497	FF operand fetched	01101000	oprnd	960.
+0157	000498	FF operand fetched	01101000	oprnd	1.00
+0158	EE0498	FF false read	01100000	fread	960.
+0159	EF000C	00 data read	11110000	read	1.00
+0160	EF000D	0D data read	11110000	read	960.
+0161*	000499	LDA FFFF,X	11111000	opcode	1.00
+0162	00049A	FF operand fetched	11101000	oprnd	960.
+0163	00049B	FF operand fetched	11101000	oprnd	1.00
+0164	EE049B	FF false read	11100000	fread	960.
+0165	EF000C	00 data read	11110000	read	960.
+0166	EF000D	0D data read	11110000	read	1.00
+0167*	00049C	LDX FFFF,Y	11111000	opcode	960.
+0168	00049D	FF operand fetched	11101000	oprnd	1.00
+0169	00049E	FF operand fetched	11101000	oprnd	960.
+0170	EE049E	FF false read	11100000	fread	1.12
+0171	EF0CFF	EE data read	11110000	read	1.00
+0172	EF0D00	FF data read	01110000	read	960.
+0173*	00049F	LDA FFFFFFF,X	01111000	opcode	1.00
+0174	0004A0	FF operand fetched	01101000	oprnd	960.
+0175	0004A1	FF operand fetched	01101000	oprnd	960.
+0176	0004A2	FF operand fetched	01101000	oprnd	1.00
+0177	00FFED	FF data read	01110000	read	960.
+0178	00FFEE	FF data read	01110000	read	1.00
+0179*	0004A3	CPY #1177	01111000	opcode	960.
+0180	0004A4	77 operand fetched	01101000	oprnd	1.00
+0181	0004A5	11 operand fetched	01101000	oprnd	960.
+0182*	0004A6	CMP (10,X)	11111000	opcode	960.
+0183	0004A7	10 operand fetched	11101000	oprnd	1.00
+0184	0004A7	10 false read	11100000	fread	960.
+0185	0005FE	23 data read	11110000	read	1.00
+0186	0005FF	69 data read	11110000	read	960.
+0187	EE6923	EE data read	11110000	read	1.00
+0188	EE6924	EE data read	11110000	read	960.
+0189*	0004A8	CMP 10,S	11111000	opcode	1.00
+0190	0004A9	10 operand fetched	11101000	oprnd	960.
+0191	0004A9	10 false read	11100000	fread	1.00
+0192	000807	C0 data read	11110000	read	960.
+0193	000808	0F data read	11110000	read	960.
+0194*	0004AA	CPY 10	11111000	opcode	1.00
+0195	0004AB	10 operand fetched	01101000	oprnd	960.
+0196	000610	0D data read	01110000	read	1.00
+0197	000611	00 data read	01110000	read	960.
+0198*	0004AC	CMP 10	01111000	opcode	1.00
+0199	0004AD	10 operand fetched	01101000	oprnd	960.
+0200	000610	0D data read	01110000	read	1.00
+0201	000611	00 data read	01110000	read	960.
+0202*	0004AE	DEC 10	01111000	opcode	960.
+0203	0004AF	10 operand fetched	01101000	oprnd	1.00
+0204	000610	0D data read	01110000	read	960.

State Listing _____ Date acquired Jun 12 1925 10:05

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0205	000611	00 data read	11110000	read	1.00
+0206	000611	00 false read	11100000	fread	950.
+0207	000611	00 data written	10110000	write	1.00
+0208	000610	0C data written	10110000	write	950.
+0209*	000480	CMP [10]	11111000	opcde	1.00
+0210	000481	10 operand fetched	11101000	oprnd	950.
+0211	000610	0C data read	11110000	read	950.
+0212	000611	00 data read	11110000	read	1.00
+0213	000612	0D data read	11110000	read	950.
+0214	0D000C	00 data read	11110000	read	1.00
+0215	0D000D	0D data read	11110000	read	950.
+0216*	000482	INX	11111000	opcde	1.00
+0217	000483	C9 false read	11100000	fread	950.
+0218*	000483	CMP \$1177	01111000	opcde	1.00
+0219	000484	77 operand fetched	01101000	oprnd	950.
+0220	000485	11 operand fetched	01101000	oprnd	950.
+0221*	000486	DEX	01111000	opcde	1.00
+0222	000487	58 false read	01100000	fread	950.
+0223*	000487	CLI	01111000	opcde	1.00
+0224	000488	CB false read	01100000	fread	950.
+0225*	000488	WAI	01111000	opcde	1.00
+0226	000489	78 false read	01100000	fread	950.
+0227	000489	78 false read	01100000	fread	1.00
+0228*	000489	SEI	11111000	opcde	950.
+0229	000489	78 false read	11100000	fread	950.
+0230	0007F7	00 data written	10110000	write	1.00
+0231	0007F6	04 data written	10110000	write	950.
+0232	0007F5	B9 data written	10110000	write	1.00
+0233	0007F4	81 data written	10110000	write	950.
+0234	00FFEE	74 irq native vpull	11010000	vpull	1.00
+0235	00FFEF	02 high byte of vpull	11010000	vpull	1.12
+0236*	000274	RTI	11111000	opcde	950.
+0237	000275	A0 false read	11100000	fread	1.00
+0238	000275	A0 false read	11100000	fread	950.
+0239	0007F4	81 data read	11110000	read	950.
+0240	0007F5	B9 data read	11110000	read	1.00
+0241	0007F6	04 data read	01110000	read	950.
+0242	0007F7	00 data read	01110000	read	1.00
+0243*	000489	SEI	01111000	opcde	950.
+0244	000489	78 false read	01100000	fread	1.00
+0245	0007F7	00 data written	00110000	write	950.
+0246	0007F6	04 data written	00110000	write	950.
+0247	0007F5	B9 data written	00110000	write	1.00
+0248	0007F4	81 data written	00110000	write	950.
+0249	00FFEE	74 irq native vpull	01010000	vpull	1.00
+0250	00FFEF	02 high byte of vpull	01010000	vpull	950.
+0251*	000274	RTI	11111000	opcde	1.00
+0252	000275	A0 false read	11100000	fread	950.
+0253	000275	A0 false read	11100000	fread	1.00
+0254	0007F4	81 data read	11110000	read	950.
+0255	0007F5	B9 data read	11110000	read	1.00

State Listing _____ Date acquired Jun 12 1985 10:05

Label >	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0256	0007F6	04 data read	11110000	read	960.
+0257	0007F7	00 data read	11110000	read	960.
+0258*	0004B9	SEI	11111000	opcde	1.00
+0259	0004BA	CC false read	11100000	fread	960.
+0260*	0004BA	CPY FFFF	11111000	opcde	1.00
+0261	0004BB	FF operand fetched	11101000	oprnd	960.
+0262	0004BC	FF operand fetched	11101000	oprnd	1.00
+0263	EEFFFF	00 data read	11110000	read	960.
+0264	EF0000	00 data read	01110000	read	1.00
+0265*	0004BD	CMP FFFF	01111000	opcde	960.
+0266	0004BE	FF operand fetched	01101000	oprnd	960.
+0267	0004BF	FF operand fetched	01101000	oprnd	1.00
+0268	EEFFFF	00 data read	01110000	read	960.
+0269	EF0000	00 data read	01110000	read	1.00
+0270*	0004C0	DEC FFFF	01111000	opcde	960.
+0271	0004C1	FF operand fetched	01101000	oprnd	1.00
+0272	0004C2	FF operand fetched	01101000	oprnd	960.
+0273	EEFFFF	00 data read	01110000	read	1.00
+0274	EF0000	00 data read	11110000	read	960.
+0275	EF0000	00 false read	11100000	fread	960.
+0276	EF0000	FF data written	10110000	write	1.00
+0277	EEFFFF	FF data written	10110000	write	960.
+0278*	0004C3	CMP FFFFFF	11111000	opcde	1.00
+0279	0004C4	FF operand fetched	11101000	oprnd	960.
+0280	0004C5	FF operand fetched	11101000	oprnd	1.00
+0281	0004C6	FF operand fetched	11101000	oprnd	960.
+0282	FFFFFF	FF data read	11110000	read	1.00
+0283	000000	FF data read	11110000	read	960.
+0284*	0004C7	CMF (10),Y	11111000	opcde	960.
+0285	0004C8	10 operand fetched	11101000	oprnd	1.00
+0286	000610	0C data read	11110000	read	960.
+0287	000611	00 data read	01110000	read	1.00
+0288	EE0611	00 false read	01100000	fread	960.
+0289	EE0D0D	77 data read	01110000	read	1.00
+0290	EE0D0E	11 data read	01110000	read	960.
+0291*	0004C9	CMP (10)	01111000	opcde	1.00
+0292	0004CA	10 operand fetched	01101000	oprnd	960.
+0293	000610	0C data read	01110000	read	960.
+0294	000611	00 data read	01110000	read	1.00
+0295	EE000C	00 data read	01110000	read	960.
+0296	EE000D	0D data read	01110000	read	1.00
+0297*	0004CB	CMP (10,S),Y	11111000	opcde	960.
+0298	0004CC	10 operand fetched	11101000	oprnd	1.00
+0299	0004CC	10 false read	11100000	fread	960.
+0300	000807	C0 data read	11110000	read	1.12
+0301	000808	0F data read	11110000	read	1.00
+0302	000808	0F false read	11100000	fread	960.
+0303	EE1CC1	FF data read	11110000	read	960.
+0304	EE1CC2	FF data read	11110000	read	1.00
+0305*	0004CD	PEI 10	11111000	opcde	960.
+0306	0004CE	10 operand fetched	11101000	oprnd	1.00

State Listing _____ Data acquired Jun 12 1985 10:05

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Tj
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rel]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0307	000610	0C data read	11110000	read	960.
+0308	000611	00 data read	11110000	read	1.00
+0309	0007F7	00 data written	10110000	write	960.
+0310	0007F6	0C data written	00110000	write	960.
+0311*	0004CF	CMP 10,X	01111000	opcde	1.00
+0312	0004D0	10 operand fetched	01101000	oprnd	960.
+0313	0004D0	10 false read	01100000	fread	1.00
+0314	0005FD	20 data read	01110000	read	960.
+0315	0005FE	23 data read	01110000	read	1.00
+0316*	0004D1	DEC 10,X	01111000	opcde	960.
+0317	0004D2	10 operand fetched	01101000	oprnd	1.00
+0318	0004D2	10 false read	01100000	fread	960.
+0319	0005FD	20 data read	01110000	read	1.00
+0320	0005FE	23 data read	11110000	read	960.
+0321	0005FE	23 false read	11100000	fread	960.
+0322	0005FE	23 data written	10110000	write	1.00
+0323	0005FD	1F data written	10110000	write	960.
+0324*	0004D3	CMP [10],Y	11111000	opcde	1.00
+0325	0004D4	10 operand fetched	11101000	oprnd	960.
+0326	000610	0C data read	11110000	read	1.00
+0327	000611	00 data read	11110000	read	960.
+0328	000612	0D data read	11110000	read	1.00
+0329	0D0D0D	77 data read	11110000	read	960.
+0330	0D0D0E	11 data read	11110000	read	960.
+0331*	0004D5	CMP FFFF,Y	11111000	opcde	1.00
+0332	0004D6	FF operand fetched	11101000	oprnd	960.
+0333	0004D7	FF operand fetched	01101000	oprnd	1.00
+0334	EE04D7	FF false read	01100000	fread	960.
+0335	EF0D00	FF data read	01110000	read	1.00
+0336	EF0D01	FF data read	01110000	read	960.
+0337*	0004D8	PHX	01111000	opcde	1.00
+0338	0004D9	DD false read	01100000	fread	960.
+0339	0007F5	FF data written	00110000	write	960.
+0340	0007F4	ED data written	00110000	write	1.00
+0341*	0004D9	CMP FFFF,X	01111000	opcde	960.
+0342	0004DA	FF operand fetched	01101000	oprnd	1.00
+0343	0004DB	FF operand fetched	11101000	oprnd	960.
+0344	EE04DB	FF false read	11100000	fread	1.00
+0345	EFFFECD	FF data read	11110000	read	960.
+0346	EFFFECD	FF data read	11110000	read	1.00
+0347*	0004DC	DEX	11111000	opcde	960.
+0348	0004DD	DE false read	11100000	fread	960.
+0349*	0004DD	DEC FFFF,X	11111000	opcde	1.00
+0350	0004DE	FF operand fetched	11101000	oprnd	960.
+0351	0004DF	FF operand fetched	11101000	oprnd	1.00
+0352	EE04DF	FF false read	11100000	fread	960.
+0353	EFFFECD	FD data read	11110000	read	1.00
+0354	EFFFECD	FF data read	11110000	read	960.
+0355	EFFFECD	FF false read	11100000	fread	1.00
+0356	EFFFECD	FF data written	00110000	write	960.
+0357	EFFFECD	FC data written	00110000	write	960.

State Listing _____ Data acquired Jun 12 1985 10:05

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rel]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0358	0004E0	CMP FFFFFFF,X	01111000	opcde	1.00
+0359	0004E1	FF operand fetched	01101000	oprnd	950.
+0360	0004E2	FF operand fetched	01101000	oprnd	1.00
+0361	0004E3	FF operand fetched	01101000	oprnd	950.
+0362	00FFEB	FC data read	01110000	read	1.00
+0363	00FFEC	FF data read	01110000	read	950.
+0364	0004E4	CPX \$1177	01111000	opcde	1.00
+0365	0004E5	77 operand fetched	01101000	oprnd	1.12
+0366	0004E6	11 operand fetched	11101000	oprnd	950.
+0367	0004E7	SBC (10,X)	11111000	opcde	950.
+0368	0004E8	10 operand fetched	11101000	oprnd	1.00
+0369	0004E8	10 false read	11100000	fread	950.
+0370	0005FC	70 data read	11110000	read	1.00
+0371	0005FD	1F data read	11110000	read	950.
+0372	EE1F70	20 data read	11110000	read	1.00
+0373	EE1F71	78 data read	11110000	read	950.
+0374	0004E9	SBC 10,S	11111000	opcde	950.
+0375	0004EA	10 operand fetched	11101000	oprnd	1.00
+0376	0004EA	10 false read	11100000	fread	950.
+0377	000803	0B data read	11110000	read	1.00
+0378	000804	F2 data read	11110000	read	950.
+0379	0004EB	CPX 10	01111000	opcde	1.00
+0380	0004EC	10 operand fetched	01101000	oprnd	950.
+0381	000510	0C data read	01110000	read	1.00
+0382	000511	00 data read	01110000	read	950.
+0383	0004ED	SBC 10	01111000	opcde	1.00
+0384	0004EE	10 operand fetched	01101000	oprnd	950.
+0385	000E10	0C data read	01110000	read	950.
+0386	000511	00 data read	01110000	read	1.00
+0387	0004EF	INC 10	01111000	opcde	950.
+0388	0004F0	10 operand fetched	01101000	oprnd	1.00
+0389	000510	0C data read	11110000	read	950.
+0390	000511	00 data read	11110000	read	1.00
+0391	000511	00 false read	11100000	fread	950.
+0392	000E11	00 data written	10110000	write	950.
+0393	000510	0D data written	10110000	write	1.00
+0394	0004F1	SBC [10]	11111000	opcde	950.
+0395	0004F2	10 operand fetched	11101000	oprnd	1.00
+0396	000510	0D data read	11110000	read	950.
+0397	000511	00 data read	11110000	read	1.00
+0398	000512	0D data read	11110000	read	950.
+0399	0D000D	0D data read	11110000	read	1.00
+0400	0D000E	00 data read	11110000	read	950.
+0401	0004F3	INX	11111000	opcde	1.00
+0402	0004F4	E9 false read	01100000	fread	950.
+0403	0004F4	SBC \$1177	01111000	opcde	950.
+0404	0004F5	77 operand fetched	01101000	oprnd	1.00
+0405	0004F6	11 operand fetched	01101000	oprnd	950.
+0406	0004F7	NOP	01111000	opcde	1.00
+0407	0004F8	EB false read	01100000	fread	950.
+0408	0004F8	XBA	01111000	opcde	1.00

State Listing _____ Data acquired Jun 12 1985 10:05

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0409	0004F9	EC false read	01100000	fread	960.
+0410	0004F9	EC false read	01100000	fread	1.00
+0411*	0004F9	CPX FFFF	01111000	opcde	960.
+0412	0004FA	FF operand fetched	11101000	oprnd	960.
+0413	0004FB	FF operand fetched	11101000	oprnd	1.00
+0414	EEFFFF	FF data read	11110000	read	960.
+0415	EF0000	FF data read	11110000	read	1.00
+0416*	0004FC	SBC FFFF	11111000	opcde	960.
+0417	0004FD	FF operand fetched	11101000	oprnd	1.00
+0418	0004FE	FF operand fetched	11101000	oprnd	960.
+0419	EEFFFF	FF data read	11110000	read	1.00
+0420	EF0000	FF data read	11110000	read	960.
+0421*	0004FF	INC FFFF	11111000	opcde	960.
+0422	000500	FF operand fetched	11101000	oprnd	1.00
+0423	000501	FF operand fetched	11101000	oprnd	960.
+0424	EEFFFF	FF data read	11110000	read	1.00
+0425	EF0000	FF data read	01110000	read	960.
+0426	EF0000	FF false read	01100000	fread	1.00
+0427	EF0000	00 data written	00110000	write	960.
+0428	EEFFFF	00 data written	00110000	write	1.00
+0429*	000502	SBC FFFFFFF	01111000	opcde	960.
+0430	000503	FF operand fetched	01101000	oprnd	1.12
+0431	000504	FF operand fetched	01101000	oprnd	960.
+0432	000505	FF operand fetched	01101000	oprnd	1.00
+0433	FFFFFF	00 data read	01110000	read	960.
+0434	000000	00 data read	01110000	read	1.00
+0435*	000506	SBC (10),Y	11111000	opcde	960.
+0436	000507	10 operand fetched	11101000	oprnd	1.00
+0437	000610	00 data read	11110000	read	960.
+0438	000611	00 data read	11110000	read	960.
+0439	EE0611	00 false read	11100000	fread	1.00
+0440	EE0D0E	11 data read	11110000	read	960.
+0441	EE0D0F	F5 data read	11110000	read	1.00
+0442*	000508	SBC (10)	11111000	opcde	960.
+0443	000509	10 operand fetched	11101000	oprnd	1.00
+0444	000610	00 data read	11110000	read	960.
+0445	000611	00 data read	11110000	read	1.00
+0446	EE000D	00 data read	11110000	read	960.
+0447	EE000E	00 data read	11110000	read	960.
+0448*	00050A	SBC (10,S),Y	01111000	opcde	1.00
+0449	00050B	10 operand fetched	01101000	oprnd	960.
+0450	00050B	10 false read	01100000	fread	1.00
+0451	000803	08 data read	01110000	read	960.
+0452	000804	F2 data read	01110000	read	1.00
+0453	000804	F2 false read	01100000	fread	960.
+0454	EEFF0C	FF data read	01110000	read	1.00
+0455	EEFF0D	FF data read	01110000	read	960.
+0456*	00050C	PEA 1177	01111000	opcde	960.
+0457	00050D	77 operand fetched	01101000	oprnd	1.00
+0458	00050E	11 operand fetched	11101000	oprnd	960.
+0459	0007F3	11 data written	10110000	write	1.00

State Listing _____ Data acquired Jun 12 1985 10:05

Label> ADDR Apple 65816 InvAsm 1.0 STAT EXTRA T1
Base > [HEX] [ASM] [BIN] [USP] [Rc]le

[Mer]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0450	0007F2	77 data written	10110000	write	960.
+0451*	00050F	SBC 10,X	11111000	opcode	1.00
+0452	000510	10 operand fetched	11101000	oprnd	960.
+0453	000510	10 false read	11100000	fread	1.00
+0454	0005FD	1F data read	11110000	read	960.
+0455	0005FE	23 data read	11110000	read	1.00
+0456*	000511	INC 10,X	11111000	opcode	960.
+0457	000512	10 operand fetched	11101000	oprnd	960.
+0458	000512	10 false read	11100000	fread	1.00
+0459	0005FD	1F data read	11110000	read	960.
+0470	0005FE	23 data read	11110000	read	1.00
+0471	0005FE	23 false read	01100000	fread	960.
+0472	0005FE	23 data written	00110000	write	1.00
+0473	0005FD	20 data written	00110000	write	960.
+0474*	000513	SBC [10],Y	01111000	opcode	1.00
+0475	000514	10 operand fetched	01101000	oprnd	960.
+0476	000610	00 data read	01110000	read	960.
+0477	000611	00 data read	01110000	read	1.00
+0478	000612	00 data read	01110000	read	960.
+0479	000D0E	11 data read	01110000	read	1.00
+0480	000D0F	F5 data read	01110000	read	960.
+0481*	000515	SED	11111000	opcode	1.00
+0482	000516	D8 false read	11100000	fread	960.
+0483*	000516	CLD	11111000	opcode	1.00
+0484	000517	F9 false read	11100000	fread	960.
+0485*	000517	SBC FFFF,Y	11111000	opcode	960.
+0486	000518	FF operand fetched	11101000	oprnd	1.00
+0487	000519	FF operand fetched	11101000	oprnd	960.
+0488	EE0519	FF false read	11100000	fread	1.00
+0489	EF0D00	FF data read	11110000	read	960.
+0490	EF0D01	FF data read	11110000	read	1.00
+0491*	00051A	PLX	11111000	opcode	960.
+0492	00051B	FD false read	11100000	fread	1.00
+0493	00051B	FD false read	11100000	fread	960.
+0494	0007F2	77 data read	01110000	read	960.
+0495	0007F3	11 data read	01110000	read	1.12
+0496*	00051B	SBC FFFF,X	01111000	opcode	1.00
+0497	00051C	FF operand fetched	01101000	oprnd	960.
+0498	00051D	FF operand fetched	01101000	oprnd	1.00
+0499	EE051D	FF false read	01100000	fread	960.
+0500	EF1176	11 data read	01110000	read	1.00
+0501	EF1177	F0 data read	01110000	read	960.
+0502*	00051E	INC FFFF,X	01111000	opcode	960.
+0503	00051F	FF operand fetched	01101000	oprnd	1.00
+0504	000520	FF operand fetched	11101000	oprnd	960.
+0505	EE0520	FF false read	11100000	fread	1.00
+0506	EF1176	11 data read	11110000	read	960.
+0507	EF1177	F0 data read	11110000	read	1.00
+0508	EF1177	F0 false read	11100000	fread	960.
+0509	EF1177	F0 data written	10110000	write	1.00
+0510	EF1176	12 data written	10110000	write	960.

State Listing _____ Date acquired Jun 12 1985 10:05

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base :	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0511	000521	SBC FFFFFFF,X	11111000	opcde	1.00
+0512	000522	FF operand fetched	11101000	oprnd	960.
+0513	000523	FF operand fetched	11101000	oprnd	960.
+0514	000524	FF operand fetched	11101000	oprnd	1.00
+0515	001176	12 data read	11110000	read	960.
+0516	001177	F0 data read	11110000	read	1.00
+0517	000525	STP	01111000	opcde	960.
+0518	000526	69 false read	01100000	fread	1.00
+0519	690526	69 false read	01100000	fread	960.
+0520	690526	69 false read	01100000	fread	960.
+0521	690526	69 false read	01100000	fread	1.00
+0522	690526	69 false read	01100000	fread	960.
+0523	690526	69 false read	01100000	fread	1.00
+0524	690526	69 false read	01100000	fread	960.
+0525	690526	69 false read	01100000	fread	1.00
+0526	690526	69 false read	01100000	fread	960.
+0527	690526	69 false read	11100000	fread	1.00
+0528	690526	69 false read	11100000	fread	960.
+0529	690526	69 false read	11100000	fread	1.00
+0530	690526	69 false read	11100000	fread	960.
+0531	690526	69 false read	11100000	fread	960.
+0532	690526	69 false read	11100000	fread	1.00
+0533	690526	69 false read	11100000	fread	960.
+0534	690526	69 false read	11100000	fread	1.00
+0535	690526	69 false read	11100000	fread	960.
+0536	690526	69 false read	11100000	fread	1.00
+0537	690526	69 false read	11100000	fread	960.
+0538	690526	69 false read	11100000	fread	1.00
+0539	690526	69 false read	11100000	fread	960.
+0540	690526	69 false read	01100000	fread	960.
+0541	690526	69 false read	01100000	fread	1.00
+0542	690526	69 false read	01100000	fread	960.
+0543	690526	69 false read	01100000	fread	1.00
+0544	690526	69 false read	01100000	fread	960.
+0545	690526	69 false read	01100000	fread	1.00
+0546	690526	69 false read	01100000	fread	960.
+0547	690526	69 false read	01100000	fread	1.00
+0548	690526	69 false read	01100000	fread	960.
+0549	690526	69 false read	01100000	fread	960.
+0550	690526	69 false read	11100000	fread	1.00
+0551	690526	69 false read	11100000	fread	960.
+0552	690526	69 false read	11100000	fread	1.00
+0553	690526	69 false read	11100000	fread	960.
+0554	690526	69 false read	11100000	fread	1.00
+0555	690526	69 false read	11100000	fread	960.
+0556	690526	69 false read	11100000	fread	1.00
+0557	690526	69 false read	11100000	fread	960.
+0558	690526	69 false read	11100000	fread	960.
+0559	690526	69 false read	11100000	fread	1.00
+0560	690526	69 false read	11100000	fread	1.12
+0561	690526	69 false read	11100000	fread	960.

65SC816

**NON-branching
opcodes**

$e=0$

$m=0$

$x=1$

State Listing _____ Data acquired Jun 12 1985 10:20

Label	ADDR	Apple 65016 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rel]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0000	000300	CLC	01111111	opcde	0.
+0001	000301	78 false read	01100111	fread	950.
+0002	000301	SEI	01111111	opcde	1.00
+0003	000302	D8 false read	01100111	fread	950.
+0004	000302	CLD	01111111	opcde	1.00
+0005	000303	FB false read	11100111	fread	950.
+0006	000303	XCE	11111111	opcde	1.00
+0007	000304	C2 false read	11100111	fread	950.
+0008	000304	REP #30	11111101	opcde	950.
+0009	000305	30 operand fetched	11101101	oprnd	1.00
+0010	000305	30 false read	11100101	fread	950.
+0011	000306	SEP #10	11111001	opcde	1.00
+0012	000307	10 operand fetched	11101000	oprnd	950.
+0013	000307	10 false read	11100000	fread	1.12
+0014	000308	LDA #0500	11111000	opcde	1.00
+0015	000309	00 operand fetched	11101001	oprnd	950.
+0016	00030A	05 operand fetched	11101001	oprnd	1.00
+0017	00030B	TCD	11111001	opcde	950.
+0018	00030C	A9 false read	01100001	fread	950.
+0019	00030C	LDA #07FF	01111001	opcde	1.00
+0020	00030D	FF operand fetched	01101001	oprnd	950.
+0021	00030E	07 operand fetched	01101001	oprnd	1.00
+0022	00030F	TCS	01111001	opcde	950.
+0023	000310	00 false read	01100001	fread	1.00
+0024	000310	BRK 10	01111001	opcde	950.
+0025	000311	10 operand fetched	01101001	oprnd	1.00
+0026	0007FF	00 data written	00110001	write	950.
+0027	0007FE	03 data written	00110001	write	950.
+0028	0007FD	12 data written	10110001	write	1.00
+0029	0007FC	15 data written	10110001	write	950.
+0030	00FFE6	20 break native vpull	11010001	vpull	1.00
+0031	00FFE7	02 high byte of vpull	11010001	vpull	950.
+0032	000220	RTI	11111001	opcde	1.00
+0033	000221	B3 false read	11100001	fread	950.
+0034	000221	B3 false read	11100001	fread	1.00
+0035	0007FC	15 data read	11110001	read	950.
+0036	0007FD	12 data read	11110001	read	950.
+0037	0007FE	03 data read	11110001	read	1.00
+0038	0007FF	00 data read	11110001	read	950.
+0039	000312	ORA (10,X)	11111001	opcde	1.00
+0040	000313	10 operand fetched	11101001	oprnd	950.
+0041	000313	10 false read	01100001	fread	1.00
+0042	000687	20 data read	01110001	read	950.
+0043	000688	3B data read	01110001	read	1.00
+0044	003B20	08 data read	01110001	read	950.
+0045	003B21	09 data read	01110001	read	950.
+0046	000314	COP 11	01111001	opcde	1.00
+0047	000315	11 operand fetched	01101001	oprnd	950.
+0048	0007FF	00 data written	00110001	write	1.00
+0049	0007FE	03 data written	00110001	write	950.
+0050	0007FD	16 data written	00110001	write	1.00

State Listing _____ Data acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	[HEX]	ASM	[BIN]	[USE]	[Rela]
[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0051	0007FC	15 data written	10110001	write	950.
+0052	00FFE4	04 cop native vpull	11010001	vpull	1.00
+0053	00FFE5	02 high byte of vpull	11010001	vpull	950.
+0054*	000204	RTI	11111001	opcde	950.
+0055	000205	A0 false read	11100001	fread	1.00
+0056	000205	A0 false read	11100001	fread	950.
+0057	0007FC	15 data read	11110001	read	1.00
+0058	0007FD	16 data read	11110001	read	950.
+0059	0007FE	03 data read	11110001	read	1.00
+0060	0007FF	00 data read	11110001	read	950.
+0061*	000316	ORA 10,S	11111001	opcde	1.00
+0062	000317	10 operand fetched	11101001	oprnd	950.
+0063	000317	10 false read	11100001	fread	950.
+0064	00080F	0D data read	01110001	read	1.00
+0065	000810	00 data read	01110001	read	950.
+0066*	000318	TSB 10	01111001	opcde	1.00
+0067	000319	10 operand fetched	01101001	oprnd	950.
+0068	000610	20 data read	01110001	read	1.00
+0069	000611	3B data read	01110001	read	950.
+0070	000611	3B false read	01100001	fread	1.00
+0071	000611	3F data written	00110001	write	950.
+0072	000610	FF data written	00110001	write	950.
+0073*	00031A	ORA 10	01111001	opcde	1.00
+0074	00031B	10 operand fetched	11101001	oprnd	950.
+0075	000610	FF data read	11110001	read	1.00
+0076	000611	3F data read	11110001	read	950.
+0077*	00031C	ASL 10	11111001	opcde	1.00
+0078	00031D	10 operand fetched	11101001	oprnd	1.12
+0079	000610	FF data read	11110001	read	950.
+0080	000611	3F data read	11110001	read	1.00
+0081	000611	3F false read	11100001	fread	950.
+0082	000611	7F data written	10110001	write	950.
+0083	000610	FE data written	10110001	write	1.00
+0084*	00031E	ORA [10]	11111001	opcde	950.
+0085	00031F	10 operand fetched	11101001	oprnd	1.00
+0086	000610	FE data read	11110001	read	950.
+0087	000611	7F data read	01110001	read	1.00
+0088	000612	0D data read	01110001	read	950.
+0089	0D7FFE	0D data read	01110001	read	1.00
+0090	0D7FFF	0D data read	01110001	read	950.
+0091*	000320	PHP	01111001	opcde	950.
+0092	000321	09 false read	01100001	fread	1.00
+0093	0007FF	14 data written	00110001	write	950.
+0094*	000321	ORA \$1177	01111001	opcde	1.00
+0095	000322	77 operand fetched	01101001	oprnd	950.
+0096	000323	11 operand fetched	01101001	oprnd	1.00
+0097*	000324	ASL Accumulator	11111001	opcde	950.
+0098	000325	0B false read	11100001	fread	1.00
+0099*	000325	PHD	11111001	opcde	950.
+0100	000326	0C false read	11100001	fread	950.
+0101	0007FE	06 data written	10110001	write	1.00

State Listing _____ Data acquired Jun 12 1995 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T ₁
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0102	0007FD	00 data written	10110001	write	950.
+0103*	000326	TSB FFFF	11111001	opcde	1.00
+0104	000327	FF operand fetched	11101001	oprnd	950.
+0105	000328	FF operand fetched	11101001	oprnd	1.00
+0106	00FFFF	02 data read	11110001	read	950.
+0107	010000	00 data read	11110001	read	1.00
+0108	010000	00 false read	11100001	fread	950.
+0109	010000	7F data written	10110001	write	950.
+0110	00FFFF	FE data written	00110001	write	1.00
+0111*	000329	ORA FFFF	01111001	opcde	950.
+0112	00032A	FF operand fetched	01101001	oprnd	1.00
+0113	00032B	FF operand fetched	01101001	oprnd	950.
+0114	00FFFF	02 data read	01110001	read	1.00
+0115	010000	7F data read	01110001	read	950.
+0116*	00032C	ASL FFFF	01111001	opcde	1.00
+0117	00032D	FF operand fetched	01101001	oprnd	950.
+0118	00032E	FF operand fetched	01101001	oprnd	950.
+0119	00FFFF	02 data read	01110001	read	1.00
+0120	010000	7F data read	11110001	read	950.
+0121	010000	7F false read	11100001	fread	1.00
+0122	010000	FE data written	10110001	write	950.
+0123	00FFFF	04 data written	10110001	write	1.00
+0124*	00032F	ORA FFFFFF	11111001	opcde	950.
+0125	000330	FF operand fetched	11101001	oprnd	1.00
+0126	000331	FF operand fetched	11101001	oprnd	950.
+0127	000332	FF operand fetched	11101001	oprnd	950.
+0128	FFFFFF	02 data read	11110001	read	1.00
+0129	000000	FE data read	11110001	read	950.
+0130*	000333	ORA (10),Y	11111001	opcde	1.00
+0131	000334	10 operand fetched	11101001	oprnd	950.
+0132	000610	FE data read	11110001	read	1.00
+0133	000611	7F data read	01110001	read	950.
+0134	000611	7F false read	01100001	fread	1.00
+0135	008002	54 data read	01110001	read	950.
+0136	008003	54 data read	01110001	read	950.
+0137*	000335	ORA (10)	01111001	opcde	1.00
+0138	000336	10 operand fetched	01101001	oprnd	950.
+0139	000610	FE data read	01110001	read	1.00
+0140	000611	7F data read	01110001	read	950.
+0141	007FFE	00 data read	01110001	read	1.00
+0142	007FFF	00 data read	01110001	read	950.
+0143*	000337	ORA (10,S),Y	11111001	opcde	1.12
+0144	000338	10 operand fetched	11101001	oprnd	1.00
+0145	000338	10 false read	11100001	fread	950.
+0146	00080C	00 data read	11110001	read	950.
+0147	00080D	0D data read	11110001	read	1.00
+0148	00080D	0D false read	11100001	fread	950.
+0149	000D04	F3 data read	11110001	read	1.00
+0150	000D05	10 data read	11110001	read	950.
+0151*	000339	TRB 10	11111001	opcde	1.00
+0152	00033A	10 operand fetched	11101001	oprnd	950.

State Listing _____ Data acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	[HEX]	[ASM]	[BIN]	[USE]	[Rel]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0153	000510	FE data read	11110001	read	1.00
+0154	000511	7F data read	11110001	read	950.
+0155	000511	7F false read	11100001	fread	950.
+0156	000511	00 data written	00110001	write	1.00
+0157	000510	00 data written	00110001	write	950.
+0158*	00033B	ORA 10,X	01111001	opcode	1.00
+0159	00033C	10 operand fetched	01101001	oprnd	950.
+0160	00033C	10 false read	01100001	fread	1.00
+0161	000587	20 data read	01110001	read	950.
+0162	000588	3B data read	01110001	read	1.00
+0163*	00033D	ASL 10,X	01111001	opcode	950.
+0164	00033E	10 operand fetched	01101001	oprnd	950.
+0165	00033E	10 false read	01100001	fread	1.00
+0166	000587	20 data read	11110001	read	950.
+0167	000588	3B data read	11110001	read	1.00
+0168	000588	3B false read	11100001	fread	950.
+0169	000588	76 data written	10110001	write	1.00
+0170	000587	40 data written	10110001	write	950.
+0171*	00033F	ORA [10],Y	11111001	opcode	1.00
+0172	000340	10 operand fetched	11101001	oprnd	950.
+0173	000510	00 data read	11110001	read	950.
+0174	000511	00 data read	11110001	read	1.00
+0175	000512	00 data read	11110001	read	950.
+0176	000004	F2 data read	11110001	read	1.00
+0177	000005	00 data read	11110001	read	950.
+0178*	000341	ORA FFFF,Y	11111001	opcode	1.00
+0179	000342	FF operand fetched	01101001	oprnd	950.
+0180	000343	FF operand fetched	01101001	oprnd	1.00
+0181	000343	FF false read	01100001	fread	950.
+0182	010003	0B data read	01110001	read	950.
+0183	010004	F2 data read	01110001	read	1.00
+0184*	000344	INC Accumulator	01111001	opcode	950.
+0185	000345	1C false read	01100001	fread	1.00
+0186*	000345	TRB FFFF	01111001	opcode	950.
+0187	000346	FF operand fetched	01101001	oprnd	1.00
+0188	000347	FF operand fetched	01101001	oprnd	950.
+0189	00FFFF	00 data read	11110001	read	1.00
+0190	010000	FE data read	11110001	read	950.
+0191	010000	FE false read	11100001	fread	950.
+0192	010000	FE data written	10110001	write	1.00
+0193	00FFFF	00 data written	10110001	write	950.
+0194*	000348	ORA FFFF,X	11111001	opcode	1.00
+0195	000349	FF operand fetched	11101001	oprnd	950.
+0196	00034A	FF operand fetched	11101001	oprnd	1.00
+0197	00034A	FF false read	11100001	fread	950.
+0198	010076	E5 data read	11110001	read	1.00
+0199	010077	00 data read	11110001	read	950.
+0200*	00034B	ASL FFFF,X	11111001	opcode	950.
+0201	00034C	FF operand fetched	11101001	oprnd	1.00
+0202	00034D	FF operand fetched	01101001	oprnd	950.
+0203	00034D	FF false read	01100001	fread	1.00

State Listing _____ Data acquired Jun 12 1925 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTPA	T1
Base	[HEX]	[ASM]	[BIN]	[USE]	[Rela]
[Mort]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0204	010075	E5 data read	01110001	read	950.
+0205	010077	00 data read	01110001	read	1.00
+0206	010077	00 false read	01100001	fread	950.
+0207	010077	01 data written	00110001	write	1.00
+0208	010076	CA data written	00110001	write	1.12
+0209	00034E	ORA FFFFFFF,X	01111001	opcde	950.
+0210	00034F	FF operand fetched	01101001	oprnd	950.
+0211	000350	FF operand fetched	01101001	oprnd	1.00
+0212	000351	FF operand fetched	11101001	oprnd	950.
+0213	000076	CA data read	11110001	read	1.00
+0214	000077	01 data read	11110001	read	950.
+0215	000352	AND (10,X)	11111001	opcde	1.00
+0216	000353	10 operand fetched	11101001	oprnd	950.
+0217	000353	10 false read	11100001	fread	1.00
+0218	000687	40 data read	11110001	read	950.
+0219	000688	76 data read	11110001	read	950.
+0220	007640	00 data read	11110001	read	1.00
+0221	007641	00 data read	11110001	read	950.
+0222	000354	AND 10,S	11111001	opcde	1.00
+0223	000355	10 operand fetched	11101001	oprnd	950.
+0224	000355	10 false read	11100001	fread	1.00
+0225	00080C	00 data read	01110001	read	950.
+0226	00080D	0D data read	01110001	read	1.00
+0227	000356	BIT 10	01111001	opcde	950.
+0228	000357	10 operand fetched	01101001	oprnd	950.
+0229	000610	00 data read	01110001	read	1.00
+0230	000611	00 data read	01110001	read	950.
+0231	000358	AND 10	01111001	opcde	1.00
+0232	000359	10 operand fetched	01101001	oprnd	950.
+0233	000610	00 data read	01110001	read	1.00
+0234	000611	00 data read	01110001	read	950.
+0235	00035A	ROL 10	11111001	opcde	1.00
+0236	00035B	10 operand fetched	11101001	oprnd	950.
+0237	000610	00 data read	11110001	read	950.
+0238	000611	00 data read	11110001	read	1.00
+0239	000611	00 false read	11100001	fread	950.
+0240	000611	00 data written	10110001	write	1.00
+0241	000610	00 data written	10110001	write	950.
+0242	00035C	AND [10]	11111001	opcde	1.00
+0243	00035D	10 operand fetched	11101001	oprnd	950.
+0244	000610	00 data read	11110001	read	1.00
+0245	000611	00 data read	11110001	read	950.
+0246	000612	0D data read	11110001	read	950.
+0247	000000	FE data read	11110001	read	1.00
+0248	000001	0F data read	01110001	read	950.
+0249	00035E	SEP 804	01111001	opcde	1.00
+0250	00035F	04 operand fetched	01101001	oprnd	950.
+0251	00035F	04 false read	01100001	fread	1.00
+0252	000360	PHP	01111001	opcde	950.
+0253	000361	28 false read	01100001	fread	1.00
+0254	0007FC	16 data written	00110001	write	950.

State Listing _____ Date acquired Jun 12 1985 10:20

Label > ADDR Apple 65016 InvAsm 1.0 STAT EXTRA T1
Base > [HEX] [ASM] [BIN] [USF] [Rele]

[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0255*	000361	PLP	01111001	opcde	950.
+0256	000362	29 false read	01100001	fread	1.00
+0257	000362	29 false read	01100001	fread	950.
+0258	0007FC	16 data read	11110001	read	1.00
+0259*	000362	AND \$1177	11111001	opcde	950.
+0260	000363	77 operand fetched	11101001	oprnd	1.00
+0261	000364	11 operand fetched	11101001	oprnd	950.
+0262*	000365	ROL Accumulator	11111001	opcde	1.00
+0263	000366	2B false read	11100001	fread	950.
+0264*	000366	PLD	11111001	opcde	950.
+0265	000367	2C false read	11100001	fread	1.00
+0266	000367	2C false read	11100001	fread	950.
+0267	0007FD	00 data read	11110001	read	1.00
+0268	0007FE	06 data read	11110001	read	950.
+0269*	000367	BIT FFFF	11111001	opcde	1.00
+0270	000368	FF operand fetched	11101001	oprnd	950.
+0271	000369	FF operand fetched	01101001	oprnd	1.00
+0272	00FFFF	00 data read	01110001	read	950.
+0273	010000	FE data read	01110001	read	1.12
+0274*	00036A	AND FFFF	01111001	opcde	950.
+0275	00036B	FF operand fetched	01101001	oprnd	1.00
+0276	00036C	FF operand fetched	01101001	oprnd	950.
+0277	00FFFF	00 data read	01110001	read	1.00
+0278	010000	FE data read	01110001	read	950.
+0279*	00036D	ROL FFFF	01111001	opcde	1.00
+0280	00036E	FF operand fetched	01101001	oprnd	950.
+0281	00036F	FF operand fetched	11101001	oprnd	1.00
+0282	00FFFF	00 data read	11110001	read	950.
+0283	010000	FE data read	11110001	read	950.
+0284	010000	FE false read	11100001	fread	1.00
+0285	010000	FC data written	10110001	write	950.
+0286	00FFFF	00 data written	10110001	write	1.00
+0287*	000370	AND FFFFFFFF	11111001	opcde	950.
+0288	000371	FF operand fetched	11101001	oprnd	1.00
+0289	000372	FF operand fetched	11101001	oprnd	950.
+0290	000373	FF operand fetched	11101001	oprnd	1.00
+0291	FFFFFF	00 data read	11110001	read	950.
+0292	000000	FC data read	11110001	read	950.
+0293*	000374	AND (10),Y	11111001	opcde	1.00
+0294	000375	10 operand fetched	01101001	oprnd	950.
+0295	000610	00 data read	01110001	read	1.00
+0296	000611	00 data read	01110001	read	950.
+0297	000004	F2 data read	01110001	read	1.00
+0298	000005	0D data read	01110001	read	950.
+0299*	000376	AND (10)	01111001	opcde	1.00
+0300	000377	10 operand fetched	01101001	oprnd	950.
+0301	000610	00 data read	01110001	read	950.
+0302	000611	00 data read	01110001	read	1.00
+0303	000000	FC data read	01110001	read	950.
+0304	000001	0F data read	11110001	read	1.00
+0305*	000378	AND (10,S),Y	11111001	opcde	950.

State Listing _____ Date acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[BIN]	[USF]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0306	000379	10 operand fetched	11101001	oprnd	1.00
+0307	000379	10 false read	11100001	fread	950.
+0308	00080E	00 data read	11110001	read	1.00
+0309	00080F	00 data read	11110001	read	950.
+0310	00080F	00 false read	11100001	fread	950.
+0311	000D04	F3 data read	11110001	read	1.00
+0312	000D05	10 data read	11110001	read	950.
+0313*	00037A	BIT 10,X	11111001	opcde	1.00
+0314	00037B	10 operand fetched	11101001	oprnd	950.
+0315	00037B	10 false read	11100001	fread	1.00
+0316	000687	40 data read	11110001	read	950.
+0317	000688	76 data read	01110001	read	1.00
+0318*	00037C	AND 10,X	01111001	opcde	950.
+0319	00037D	10 operand fetched	01101001	oprnd	950.
+0320	00037D	10 false read	01100001	fread	1.00
+0321	000687	40 data read	01110001	read	950.
+0322	000688	76 data read	01110001	read	1.00
+0323*	00037E	ROL 10,X	01111001	opcde	950.
+0324	00037F	10 operand fetched	01101001	oprnd	1.00
+0325	00037F	10 false read	01100001	fread	950.
+0326	000687	40 data read	01110001	read	1.00
+0327	000688	76 data read	11110001	read	950.
+0328	000688	76 false read	11100001	fread	950.
+0329	000688	EC data written	10110001	write	1.00
+0330	000687	81 data written	10110001	write	950.
+0331*	000380	AND [10],Y	11111001	opcde	1.00
+0332	000381	10 operand fetched	11101001	oprnd	950.
+0333	000610	00 data read	11110001	read	1.00
+0334	000611	00 data read	11110001	read	950.
+0335	000612	00 data read	11110001	read	1.00
+0336	000004	F2 data read	11110001	read	950.
+0337	000005	00 data read	11110001	read	950.
+0338*	000382	SEC	11111001	opcde	1.12
+0339	000383	39 false read	11100001	fread	1.00
+0340*	000383	AND FFFF,Y	01111001	opcde	950.
+0341	000384	FF operand fetched	01101001	oprnd	1.00
+0342	000385	FF operand fetched	01101001	oprnd	950.
+0343	000385	FF false read	01100001	fread	1.00
+0344	010003	0B data read	01110001	read	950.
+0345	010004	F2 data read	01110001	read	1.00
+0346*	000386	DEC Accumulator	01111001	opcde	950.
+0347	000387	3B false read	01100001	fread	950.
+0348*	000387	TSC	01111001	opcde	1.00
+0349	000388	3C false read	01100001	fread	950.
+0350*	000388	BIT FFFF,X	11111001	opcde	1.00
+0351	000389	FF operand fetched	11101001	oprnd	950.
+0352	00038A	FF operand fetched	11101001	oprnd	1.00
+0353	00038A	FF false read	11100001	fread	950.
+0354	010076	CA data read	11110001	read	1.00
+0355	010077	01 data read	11110001	read	950.
+0356*	00038B	AND FFFF,X	11111001	opcde	950.

State Listing _____ Data acquired Jun. 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	[HEX]	[ASM]	[BIN]	[USE]	[Rel]
[Memb]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0357	00038C	FF operand fetched	11101001	oprnd	1.00
+0358	00038D	FF operand fetched	11101001	oprnd	950.
+0359	00038D	FF false read	11100001	fread	1.00
+0360	010076	CA data read	11110001	read	950.
+0361	010077	01 data read	11110001	read	1.00
+0362	00038E	ROL FFFF,X	11111001	opcde	950.
+0363	00038F	FF operand fetched	01101001	oprnd	1.00
+0364	000390	FF operand fetched	01101001	oprnd	950.
+0365	000390	FF false read	01100001	fread	950.
+0366	010076	CA data read	01110001	read	1.00
+0367	010077	01 data read	01110001	read	950.
+0368	010077	01 false read	01100001	fread	1.00
+0369	010077	03 data written	00110001	write	950.
+0370	010076	95 data written	00110001	write	1.00
+0371	000391	AND FFFFFF,X	01111001	opcde	950.
+0372	000392	FF operand fetched	01101001	oprnd	1.00
+0373	000393	FF operand fetched	11101001	oprnd	950.
+0374	000394	FF operand fetched	11101001	oprnd	950.
+0375	000076	95 data read	11110001	read	1.00
+0376	000077	03 data read	11110001	read	950.
+0377	000395	EOR (10,X)	11111001	opcde	1.00
+0378	000396	10 operand fetched	11101001	oprnd	950.
+0379	000396	10 false read	11100001	fread	1.00
+0380	000667	81 data read	11110001	read	950.
+0381	000686	EC data read	11110001	read	1.00
+0382	00EC81	FF data read	11110001	read	950.
+0383	00EC82	FF data read	11110001	read	950.
+0384	000397	WDM 00	11111001	opcde	1.00
+0385	000398	00 operand fetched	11101001	oprnd	950.
+0386	000399	EOR 10,S	01111001	opcde	1.00
+0387	00039A	10 operand fetched	01101001	oprnd	950.
+0388	00039A	10 false read	01100001	fread	1.00
+0389	00080E	00 data read	01110001	read	950.
+0390	00080F	0D data read	01110001	read	1.00
+0391	00039E	LDA #000F	01111001	opcde	950.
+0392	00039C	0F operand fetched	01101001	oprnd	950.
+0393	00039D	00 operand fetched	01101001	oprnd	1.00
+0394	00039E	LDX #04	01111001	opcde	950.
+0395	00039F	04 operand fetched	01101001	oprnd	1.00
+0396	0003A0	LDY #04	11111001	opcde	950.
+0397	0003A1	04 operand fetched	11101001	oprnd	1.00
+0398	0003A2	MUP FFEE block move	11111001	opcde	950.
+0399	0003A3	EE operand fetched	11101001	oprnd	1.00
+0400	0003A4	FF operand fetched	11101001	oprnd	950.
+0401	FF0004	F2 data read	11110001	read	950.
+0402	EE0004	F2 data written	10110001	write	1.00
+0403	EE0004	F2 false read	11100001	fread	1.12
+0404	EE0004	F2 false read	11100001	fread	950.
+0405	0003A2	MUP FFEE block move	11111001	opcde	1.00
+0406	0003A3	EE operand fetched	11101001	oprnd	950.
+0407	0003A4	FF operand fetched	11101001	oprnd	1.00

State Listing _____ Data acquired Jun 12 1985 10:20
 <1

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base >	[HEX]	ASM	[BIN]	[USP]	[Rel]
[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0408	FF0003	0B data read	11110001	read	960.
+0409	EE0003	0B data written	00110001	write	1.00
+0410	EE0003	0B false read	01100001	fread	960.
+0411	EE0003	0B false read	01100001	fread	960.
+0412*	0003A2	MVP FFEE block move	01111001	opcode	1.00
+0413	0003A3	EE operand fetched	01101001	oprnd	960.
+0414	0003A4	FF operand fetched	01101001	oprnd	1.00
+0415	FF0002	E0 data read	01110001	read	960.
+0416	EE0002	E0 data written	00110001	write	1.00
+0417	EE0002	E0 false read	01100001	fread	960.
+0418	EE0002	E0 false read	01100001	fread	1.00
+0419*	0003A2	MVP FFEE block move	11111001	opcode	960.
+0420	0003A3	EE operand fetched	11101001	oprnd	960.
+0421	0003A4	FF operand fetched	11101001	oprnd	1.00
+0422	FF0001	0F data read	11110001	read	960.
+0423	EE0001	0F data written	10110001	write	1.00
+0424	EE0001	0F false read	11100001	fread	960.
+0425	EE0001	0F false read	11100001	fread	1.00
+0426*	0003A2	MVP FFEE block move	11111001	opcode	960.
+0427	0003A3	EE operand fetched	11101001	oprnd	1.00
+0428	0003A4	FF operand fetched	11101001	oprnd	960.
+0429	FF0000	FC data read	11110001	read	960.
+0430	EE0000	FC data written	10110001	write	1.00
+0431	EE0000	FC false read	11100001	fread	960.
+0432	EE0000	FC false read	01100001	fread	1.00
+0433*	0003A2	MVP FFEE block move	01111001	opcode	960.
+0434	0003A3	EE operand fetched	01101001	oprnd	1.00
+0435	0003A4	FF operand fetched	01101001	oprnd	960.
+0436	FF00FF	B0 data read	01110001	read	1.00
+0437	EE00FF	B0 data written	00110001	write	960.
+0438	EE00FF	B0 false read	01100001	fread	960.
+0439	EE00FF	B0 false read	01100001	fread	1.00
+0440*	0003A2	MVP FFEE block move	01111001	opcode	960.
+0441	0003A3	EE operand fetched	01101001	oprnd	1.00
+0442	0003A4	FF operand fetched	11101001	oprnd	960.
+0443	FF00FE	0F data read	11110001	read	1.00
+0444	EE00FE	0F data written	10110001	write	960.
+0445	EE00FE	0F false read	11100001	fread	1.00
+0446	EE00FE	0F false read	11100001	fread	960.
+0447*	0003A2	MVP FFEE block move	11111001	opcode	960.
+0448	0003A3	EE operand fetched	11101001	oprnd	1.00
+0449	0003A4	FF operand fetched	11101001	oprnd	960.
+0450	FF00FD	F0 data read	11110001	read	1.00
+0451	EE00FD	F0 data written	10110001	write	960.
+0452	EE00FD	F0 false read	11100001	fread	1.00
+0453	EE00FD	F0 false read	11100001	fread	960.
+0454*	0003A2	MVP FFEE block move	11111001	opcode	1.00
+0455	0003A3	EE operand fetched	01101001	oprnd	960.
+0456	0003A4	FF operand fetched	01101001	oprnd	960.
+0457	FF00FC	0F data read	01110001	read	1.00
+0458	EE00FC	0F data written	00110001	write	960.

State Listing _____ Data acquired Jun 12 1925 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USF]	[Rel]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0459	EE00FC	0F false read	01100001	fread	1.00
+0460	EE00FC	0F false read	01100001	fread	960.
+0461	0003A2	MVP FFEE block move	01111001	opcd	1.00
+0462	0003A3	EE operand fetched	01101001	oprnd	960.
+0463	0003A4	FF operand fetched	01101001	oprnd	1.00
+0464	FF00FB	F0 data read	01110001	read	960.
+0465	EE00FB	F0 data written	10110001	write	960.
+0466	EE00FB	F0 false read	11100001	fread	1.00
+0467	EE00FB	F0 false read	11100001	fread	960.
+0468	0003A2	MVP FFEE block move	11111001	opcd	1.12
+0469	0003A3	EE operand fetched	11101001	oprnd	1.00
+0470	0003A4	FF operand fetched	11101001	oprnd	960.
+0471	FF00FA	0F data read	11110001	read	1.00
+0472	EE00FA	0F data written	10110001	write	960.
+0473	EE00FA	0F false read	11100001	fread	1.00
+0474	EE00FA	0F false read	11100001	fread	960.
+0475	0003A2	MVP FFEE block move	11111001	opcd	960.
+0476	0003A3	EE operand fetched	11101001	oprnd	1.00
+0477	0003A4	FF operand fetched	11101001	oprnd	960.
+0478	FF00F9	F0 data read	01110001	read	1.00
+0479	EE00F9	F0 data written	00110001	write	960.
+0480	EE00F9	F0 false read	01100001	fread	1.00
+0481	EE00F9	F0 false read	01100001	fread	960.
+0482	0003A2	MVP FFEE block move	01111001	opcd	1.00
+0483	0003A3	EE operand fetched	01101001	oprnd	960.
+0484	0003A4	FF operand fetched	01101001	oprnd	960.
+0485	FF00F8	0F data read	01110001	read	1.00
+0486	EE00F8	0F data written	00110001	write	960.
+0487	EE00F8	0F false read	01100001	fread	1.00
+0488	EE00F8	0F false read	11100001	fread	960.
+0489	0003A2	MVP FFEE block move	11111001	opcd	1.00
+0490	0003A3	EE operand fetched	11101001	oprnd	960.
+0491	0003A4	FF operand fetched	11101001	oprnd	1.00
+0492	FF00F7	90 data read	11110001	read	960.
+0493	EE00F7	90 data written	10110001	write	960.
+0494	EE00F7	90 false read	11100001	fread	1.00
+0495	EE00F7	90 false read	11100001	fread	960.
+0496	0003A2	MVP FFEE block move	11111001	opcd	1.00
+0497	0003A3	EE operand fetched	11101001	oprnd	960.
+0498	0003A4	FF operand fetched	11101001	oprnd	1.00
+0499	FF00F6	06 data read	11110001	read	960.
+0500	EE00F6	06 data written	10110001	write	1.00
+0501	EE00F6	06 false read	01100001	fread	960.
+0502	EE00F6	06 false read	01100001	fread	960.
+0503	0003A2	MVP FFEE block move	01111001	opcd	1.00
+0504	0003A3	EE operand fetched	01101001	oprnd	960.
+0505	0003A4	FF operand fetched	01101001	oprnd	1.00
+0506	FF00F5	B0 data read	01110001	read	960.
+0507	EE00F5	B0 data written	00110001	write	1.00
+0508	EE00F5	B0 false read	01100001	fread	960.
+0509	EE00F5	B0 false read	01100001	fread	1.00

State Listing _____ Data acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Byte	[HEX]	ASM	[RIN]	[USE]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0510*	0003A5	EOR 10	01111001	opcde	950.
+0511	0003A6	10 operand fetched	11101001	oprnd	950.
+0512	000610	00 data read	11110001	read	1.00
+0513	000611	00 data read	11110001	read	950.
+0514*	0003A7	LSR 10	11111001	opcde	1.00
+0515	0003A8	10 operand fetched	11101001	oprnd	950.
+0516	000610	00 data read	11110001	read	1.00
+0517	000611	00 data read	11110001	read	950.
+0518	000611	00 false read	11100001	fread	1.00
+0519	000611	00 data written	10110001	write	950.
+0520	000610	00 data written	10110001	write	950.
+0521*	0003A9	EOR [10]	11111001	opcde	1.00
+0522	0003AA	10 operand fetched	11101001	oprnd	950.
+0523	000610	00 data read	11110001	read	1.00
+0524	000611	00 data read	01110001	read	950.
+0525	000612	0D data read	01110001	read	1.00
+0526	0D0000	FC data read	01110001	read	950.
+0527	0D0001	0F data read	01110001	read	1.00
+0528*	0003AB	PHA	01111001	opcde	950.
+0529	0003AC	49 false read	01100001	fread	950.
+0530	0007FE	F0 data written	00110001	write	1.00
+0531	0007FD	03 data written	00110001	write	950.
+0532*	0003AC	EOR #1177	01111001	opcde	1.00
+0533	0003AD	77 operand fetched	01101001	oprnd	1.12
+0534	0003AE	11 operand fetched	11101001	oprnd	950.
+0535*	0003AF	LSR Accumulator	11111001	opcde	1.00
+0536	0003B0	4B false read	11100001	fread	950.
+0537*	0003B0	PHK	11111001	opcde	1.00
+0538	0003B1	4D false read	11100001	fread	950.
+0539	0007FC	00 data written	10110001	write	950.
+0540*	0003B1	EOR FFFF	11111001	opcde	1.00
+0541	0003B2	FF operand fetched	11101001	oprnd	950.
+0542	0003B3	FF operand fetched	11101001	oprnd	1.00
+0543	EEFFFF	00 data read	11110001	read	950.
+0544	EF0000	FC data read	11110001	read	1.00
+0545*	0003B4	LSR FFFF	11111001	opcde	950.
+0546	0003B5	FF operand fetched	11101001	oprnd	1.00
+0547	0003B6	FF operand fetched	01101001	oprnd	950.
+0548	EEFFFF	00 data read	01110001	read	950.
+0549	EF0000	FC data read	01110001	read	1.00
+0550	EF0000	FC false read	01100001	fread	950.
+0551	EF0000	7E data written	00110001	write	1.00
+0552	EEFFFF	00 data written	00110001	write	950.
+0553*	0003B7	EOR FFFFFFFF	01111001	opcde	1.00
+0554	0003B8	FF operand fetched	01101001	oprnd	950.
+0555	0003B9	FF operand fetched	01101001	oprnd	1.00
+0556	0003BA	FF operand fetched	01101001	oprnd	950.
+0557	FFFFFF	00 data read	11110001	read	950.
+0558	000000	7E data read	11110001	read	1.00
+0559*	0003BB	EOR (10),Y	11111001	opcde	950.
+0560	0003BC	10 operand fetched	11101001	oprnd	1.00

State Listing _____ Data acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base >	[HEX]	[ASM]	[BIN]	[USF]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0561	000610	00 data read	11110001	read	960.
+0562	000611	00 data read	11110001	read	1.00
+0563	EE00F4	0E data read	11110001	read	960.
+0564	EE00F5	B0 data read	11110001	read	1.00
+0565	0003BD	EOR (10)	11111001	opcde	960.
+0566	0003BE	10 operand fetched	11101001	oprnd	960.
+0567	000610	00 data read	11110001	read	1.00
+0568	000611	00 data read	11110001	read	960.
+0569	EE0000	7E data read	11110001	read	1.00
+0570	EE0001	0F data read	01110001	read	960.
+0571	0003BF	EOR (10,S),Y	01111001	opcde	1.00
+0572	0003C0	10 operand fetched	01101001	oprnd	960.
+0573	0003C0	10 false read	01100001	fread	1.00
+0574	00080B	0C data read	01110001	read	960.
+0575	00080C	00 data read	01110001	read	960.
+0576	00080C	00 false read	01100001	fread	1.00
+0577	EE0100	00 data read	01110001	read	960.
+0578	EE0101	40 data read	01110001	read	1.00
+0579	0003C1	LDA #000F	01111001	opcde	960.
+0580	0003C2	0F operand fetched	11101001	oprnd	1.00
+0581	0003C3	00 operand fetched	11101001	oprnd	960.
+0582	0003C4	LDX #FD	11111001	opcde	1.00
+0583	0003C5	FD operand fetched	11101001	oprnd	960.
+0584	0003C6	LDY #FD	11111001	opcde	960.
+0585	0003C7	FD operand fetched	11101001	oprnd	1.00
+0586	0003C8	MVN FFEE block move	11111001	opcde	960.
+0587	0003C9	EE operand fetched	11101001	oprnd	1.00
+0588	0003CA	FF operand fetched	11101001	oprnd	960.
+0589	FF00FD	F0 data read	11110001	read	1.00
+0590	EE00FD	F0 data written	10110001	write	960.
+0591	EE00FD	F0 false read	11100001	fread	1.00
+0592	EE00FD	F0 false read	11100001	fread	960.
+0593	0003C8	MVN FFEE block move	01111001	opcde	960.
+0594	0003C9	EE operand fetched	01101001	oprnd	1.00
+0595	0003CA	FF operand fetched	01101001	oprnd	960.
+0596	FF00FE	0F data read	01110001	read	1.00
+0597	EE00FE	0F data written	00110001	write	960.
+0598	EE00FE	0F false read	01100001	fread	1.12
+0599	EE00FE	0F false read	01100001	fread	1.00
+0600	0003C8	MVN FFEE block move	01111001	opcde	960.
+0601	0003C9	EE operand fetched	01101001	oprnd	1.00
+0602	0003CA	FF operand fetched	01101001	oprnd	960.
+0603	FF00FF	B0 data read	11110001	read	960.
+0604	EE00FF	B0 data written	10110001	write	1.00
+0605	EE00FF	B0 false read	11100001	fread	960.
+0606	EE00FF	B0 false read	11100001	fread	1.00
+0607	0003C8	MVN FFEE block move	11111001	opcde	960.
+0608	0003C9	EE operand fetched	11101001	oprnd	1.00
+0609	0003CA	FF operand fetched	11101001	oprnd	960.
+0610	FF0000	7E data read	11110001	read	960.
+0611	EE0000	7E data written	10110001	write	1.00

State Listing _____ Data acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[BIN]	[USF]	[Rel]
[Mem]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0612	EE0000	7E false read	11100001	fread	960.
+0613	EE0000	7E false read	11100001	fread	1.00
+0614	0003C8	MVN FFEE block move	11111001	opcde	960.
+0615	0003C9	EE operand fetched	11101001	oprnd	1.00
+0616	0003CA	FF operand fetched	01101001	oprnd	960.
+0617	FF0001	0F data read	01110001	read	1.00
+0618	EE0001	0F data written	00110001	write	960.
+0619	EE0001	0F false read	01100001	fread	1.00
+0620	EE0001	0F false read	01100001	fread	960.
+0621	0003C8	MVN FFEE block move	01111001	opcde	960.
+0622	0003C9	EE operand fetched	01101001	oprnd	1.00
+0623	0003CA	FF operand fetched	01101001	oprnd	960.
+0624	FF0002	E0 data read	01110001	read	1.00
+0625	EE0002	E0 data written	00110001	write	960.
+0626	EE0002	E0 false read	11100001	fread	1.00
+0627	EE0002	E0 false read	11100001	fread	960.
+0628	0003C8	MVN FFEE block move	11111001	opcde	1.00
+0629	0003C9	EE operand fetched	11101001	oprnd	960.
+0630	0003CA	FF operand fetched	11101001	oprnd	960.
+0631	FF0003	0B data read	11110001	read	1.00
+0632	EE0003	0B data written	10110001	write	960.
+0633	EE0003	0B false read	11100001	fread	1.00
+0634	EE0003	0B false read	11100001	fread	960.
+0635	0003C8	MVN FFEE block move	11111001	opcde	1.00
+0636	0003C9	EE operand fetched	11101001	oprnd	960.
+0637	0003CA	FF operand fetched	11101001	oprnd	1.00
+0638	FF0004	F2 data read	11110001	read	960.
+0639	EE0004	F2 data written	00110001	write	960.
+0640	EE0004	F2 false read	01100001	fread	1.00
+0641	EE0004	F2 false read	01100001	fread	960.
+0642	0003C8	MVN FFEE block move	01111001	opcde	1.00
+0643	0003C9	EE operand fetched	01101001	oprnd	960.
+0644	0003CA	FF operand fetched	01101001	oprnd	1.00
+0645	FF0005	0D data read	01110001	read	960.
+0646	EE0005	0D data written	00110001	write	1.00
+0647	EE0005	0D false read	01100001	fread	960.
+0648	EE0005	0D false read	01100001	fread	960.
+0649	0003C8	MVN FFEE block move	11111001	opcde	1.00
+0650	0003C9	EE operand fetched	11101001	oprnd	960.
+0651	0003CA	FF operand fetched	11101001	oprnd	1.00
+0652	FF0006	EC data read	11110001	read	960.
+0653	EE0006	EC data written	10110001	write	1.00
+0654	EE0006	EC false read	11100001	fread	960.
+0655	EE0006	EC false read	11100001	fread	1.00
+0656	0003C8	MVN FFEE block move	11111001	opcde	960.
+0657	0003C9	EE operand fetched	11101001	oprnd	960.
+0658	0003CA	FF operand fetched	11101001	oprnd	1.00
+0659	FF0007	C0 data read	11110001	read	960.
+0660	EE0007	C0 data written	10110001	write	1.00
+0661	EE0007	C0 false read	11100001	fread	960.
+0662	EE0007	C0 false read	01100001	fread	1.00

State Listing _____ Date acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[PIN]	[USE]	[Rela]
[Mert]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0663*	0003C8	MVN FFEE block move	01111001	opcde	1.12
+0664	0003C9	EE operand fetched	01101001	oprnd	950.
+0665	0003CA	FF operand fetched	01101001	oprnd	1.00
+0666	FF0008	0F data read	01110001	read	950.
+0667	EE0008	0F data written	00110001	write	950.
+0668	EE0008	0F false read	01100001	fread	1.00
+0669	EE0008	0F false read	01100001	fread	950.
+0670*	0003C8	MVN FFEE block move	01111001	opcde	1.00
+0671	0003C9	EE operand fetched	01101001	oprnd	950.
+0672	0003CA	FF operand fetched	11101001	oprnd	1.00
+0673	FF0009	88 data read	11110001	read	950.
+0674	EE0009	88 data written	10110001	write	950.
+0675	EE0009	88 false read	11100001	fread	1.00
+0676	EE0009	88 false read	11100001	fread	950.
+0677*	0003C8	MVN FFEE block move	11111001	opcde	1.00
+0678	0003C9	EE operand fetched	11101001	oprnd	950.
+0679	0003CA	FF operand fetched	11101001	oprnd	1.00
+0680	FF000A	75 data read	11110001	read	950.
+0681	EE000A	75 data written	10110001	write	1.00
+0682	EE000A	75 false read	11100001	fread	950.
+0683	EE000A	75 false read	11100001	fread	1.00
+0684*	0003C8	MVN FFEE block move	11111001	opcde	950.
+0685	0003C9	EE operand fetched	01101001	oprnd	950.
+0686	0003CA	FF operand fetched	01101001	oprnd	1.00
+0687	FF000B	0C data read	01110001	read	950.
+0688	EE000B	0C data written	00110001	write	1.00
+0689	EE000B	0C false read	01100001	fread	950.
+0690	EE000B	0C false read	01100001	fread	1.00
+0691*	0003C8	MVN FFEE block move	01111001	opcde	950.
+0692	0003C9	EE operand fetched	01101001	oprnd	1.00
+0693	0003CA	FF operand fetched	01101001	oprnd	950.
+0694	FF000C	00 data read	01110001	read	950.
+0695	EE000C	00 data written	10110001	write	1.00
+0696	EE000C	00 false read	11100001	fread	950.
+0697	EE000C	00 false read	11100001	fread	1.00
+0698*	0003CB	EOR 10,X	11111001	opcde	950.
+0699	0003CC	10 operand fetched	11101001	oprnd	1.00
+0700	0003CC	10 false read	11100001	fread	950.
+0701	00061D	69 data read	11110001	read	1.00
+0702	00061E	20 data read	11110001	read	950.
+0703*	0003CD	LSR 10,X	11111001	opcde	950.
+0704	0003CE	10 operand fetched	11101001	oprnd	1.00
+0705	0003CE	10 false read	11100001	fread	950.
+0706	00061D	69 data read	11110001	read	1.00
+0707	00061E	20 data read	11110001	read	950.
+0708	00061E	20 false read	01100001	fread	1.00
+0709	00061E	10 data written	00110001	write	950.
+0710	00061D	34 data written	00110001	write	1.00
+0711*	0003CF	EOR [10],Y	01111001	opcde	950.
+0712	0003D0	10 operand fetched	01101001	oprnd	950.
+0713	000610	00 data read	01110001	read	1.00

State listing
Data acquired Jun 12 1925 10:20

Label: ADDR
Base: 1 HEX
Apple 65816 Invmem 1.0
ASM
STAT
EXTRA
USF
T1

[Mort] XXXXXX
[Instructions] XXXXXXXX
[XXXXXX]

+0714	000611	00 data read	01110001	read	960.
+0715	000612	00 data read	01110001	read	960.
+0716	000600	00 data read	01110001	read	960.
+0717	00060E	00 data read	01110001	read	960.
+0718	0003D1	CL1	11111001	opcode	960.
+0719	0003D2	78 false read	11110001	opcode	1.00
+0720	0003D2	SE1	11110001	opcode	960.
+0721	0003D3	59 false read	11100001	opcode	960.
+0722	0003D3	EOR FFFF.Y	11111001	opcode	1.00
+0723	0003D4	FF operand fetched	11101001	opcode	960.
+0724	0003D5	FF operand fetched	11101001	opcode	1.00
+0725	EE03D5	FF false read	11100001	opcode	960.
+0726	EF000C	00 data read	11110001	opcode	1.00
+0727	EF000D	00 data read	11110001	opcode	960.
+0728	0003D6	PHY	11111001	opcode	1.12
+0729	0003D7	5D false read	11100001	opcode	960.
+0730	0007F8	0D data written	10110001	opcode	960.
+0731	0003D7	EOR FFFF.X	01111001	opcode	1.00
+0732	0003D8	FF operand fetched	01101001	opcode	960.
+0733	0003D9	FF operand fetched	01101001	opcode	1.00
+0734	EE03D9	FF false read	01100001	opcode	960.
+0735	EF000C	00 data read	01110001	opcode	1.00
+0736	EF000D	00 data read	01110001	opcode	960.
+0737	0003DA	LSR FFFF.X	01111001	opcode	960.
+0738	0003D8	FF operand fetched	01101001	opcode	960.
+0739	0003DC	FF operand fetched	01101001	opcode	1.00
+0740	EE03DC	FF false read	01100001	opcode	960.
+0741	EF000C	00 data read	11110001	opcode	1.00
+0742	EF000D	00 data read	11110001	opcode	960.
+0743	EF000D	00 false read	11100001	opcode	1.00
+0744	EF000D	06 data written	10110001	opcode	960.
+0745	EF000C	80 data written	10110001	opcode	1.00
+0746	0003DD	EOR FFFF.X	11111001	opcode	960.
+0747	0003DE	FF operand fetched	11101001	opcode	1.00
+0748	0003DF	FF operand fetched	11101001	opcode	960.
+0749	0003E0	FF operand fetched	11101001	opcode	1.00
+0750	00000C	80 data read	11110001	opcode	960.
+0751	00000D	06 data read	11110001	opcode	1.00
+0752	0003E1	ADC (10.X)	11111001	opcode	960.
+0753	0003E2	10 operand fetched	11101001	opcode	1.00
+0754	0003E2	10 false read	01110001	opcode	960.
+0755	00061D	34 data read	01110001	opcode	1.00
+0756	00061E	10 data read	01110001	opcode	960.
+0757	EE1034	0F data read	01110001	opcode	1.00
+0758	EE1035	F0 data read	01110001	opcode	960.
+0759	0003E3	PER 1177 (delta=+0D91)	01111001	opcode	1.00
+0760	0003E4	91 operand fetched	01101001	opcode	960.
+0761	0003E5	0D operand fetched	01101001	opcode	1.00
+0762	0003E5	0D false read	01100001	opcode	960.
+0763	0007FA	11 data written	00110001	opcode	1.00
+0764	0007F9	77 data written	10110001	opcode	960.

State Listing _____ Date acquired Jun 12 1965 10:20

Label	ADDP	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	[HLX]	ASM	[RIN]	[USP]	[Pele]
[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0765*	0003E6	ADC 10,S	11111001	opcde	1.00
+0766	0003E7	10 operand fetched	11101001	oprnd	960.
+0767	0003E7	10 false read	11100001	fread	960.
+0768	000808	0F data read	11110001	read	1.00
+0769	000809	8E data read	11110001	read	960.
+0770*	0003E8	STZ 10	11111001	opcde	1.00
+0771	0003E9	10 operand fetched	11101001	oprnd	960.
+0772	000510	00 data written	10110001	write	1.00
+0773	000511	00 data written	10110001	write	960.
+0774*	0003EA	ADC 10	11111001	opcde	1.00
+0775	0003EB	10 operand fetched	11101001	oprnd	960.
+0776	000510	00 data read	11110001	read	960.
+0777	000511	00 data read	01110001	read	1.00
+0778*	0003EC	ROR 10	01111001	opcde	960.
+0779	0003ED	10 operand fetched	01101001	oprnd	1.00
+0780	000510	00 data read	01110001	read	960.
+0781	000511	00 data read	01110001	read	1.00
+0782	000511	00 false read	01100001	fread	960.
+0783	000511	00 data written	00110001	write	1.00
+0784	000510	00 data written	00110001	write	960.
+0785*	0003EE	ADC [10]	01111001	opcde	960.
+0786	0003EF	10 operand fetched	01101001	oprnd	1.00
+0787	000510	00 data read	11110001	read	960.
+0788	000511	00 data read	11110001	read	1.00
+0789	000512	0D data read	11110001	read	960.
+0790	0D0000	7E data read	11110001	read	1.00
+0791	0D0001	0F data read	11110001	read	960.
+0792*	0003F0	PHA	11111001	opcde	960.
+0793	0003F1	68 false read	11100001	fread	1.16
+0794	0007F8	60 data written	10110001	write	960.
+0795	0007F7	B9 data written	10110001	write	960.
+0796*	0003F1	PLA	11111001	opcde	1.00
+0797	0003F2	69 false read	11100001	fread	960.
+0798	0003F2	69 false read	11100001	fread	1.00
+0799	0007F7	B9 data read	11110001	read	960.
+0800	0007F8	60 data read	01110001	read	1.00
+0801*	0003F2	ADC #1177	01111001	opcde	960.
+0802	0003F3	77 operand fetched	01101001	oprnd	960.
+0803	0003F4	11 operand fetched	01101001	oprnd	1.00
+0804*	0003F5	ROR Accumulator	01111001	opcde	960.
+0805	0003F6	6D false read	01100001	fread	1.00
+0806*	0003F6	ADC FFFF	01111001	opcde	960.
+0807	0003F7	FF operand fetched	01101001	oprnd	1.00
+0808	0003F8	FF operand fetched	01101001	oprnd	960.
+0809	EEFFFF	00 data read	01110001	read	1.00
+0810	EF0000	7E data read	11110001	read	960.
+0811*	0003F9	ROR FFFF	11111001	opcde	1.00
+0812	0003FA	FF operand fetched	11101001	oprnd	960.
+0813	0003FB	FF operand fetched	11101001	oprnd	960.
+0814	EEFFFF	00 data read	11110001	read	1.00
+0815	EF0000	7E data read	11110001	read	960.

State Listing _____ Data acquired Jun 12 1985 10:20
(1)

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	[HLX]	[ASM]	[BIN]	[USF]	[Relc]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0867	000612	0D data read	11110001	read	1.00
+0868	0D000D	05 data read	11110001	read	950.
+0869	0D000E	00 data read	01110001	read	1.00
+0870*	00040E	ADC FFFF,Y	01111001	opcde	950.
+0871	00040F	FF operand fetched	01101001	oprnd	1.00
+0872	000410	FF operand fetched	01101001	oprnd	950.
+0873	EE0410	FF false read	01100001	fread	1.00
+0874	EF000C	80 data read	01110001	read	950.
+0875	EF000D	05 data read	01110001	read	950.
+0876*	000411	PHY	01111001	opcde	1.00
+0877	000412	7A false read	01100001	fread	950.
+0878	0007F8	0D data written	00110001	write	1.00
+0879*	000412	PLY	11111001	opcde	950.
+0880	000413	7B false read	11100001	fread	1.00
+0881	000413	7B false read	11100001	fread	950.
+0882	0007F8	0D data read	11110001	read	1.00
+0883*	000413	TDC	11111001	opcde	950.
+0884	000414	7D false read	11100001	fread	950.
+0885*	000414	ADC FFFF,X	11111001	opcde	1.00
+0886	000415	FF operand fetched	11101001	oprnd	950.
+0887	000416	FF operand fetched	11101001	oprnd	1.00
+0888	EE0416	FF false read	11100001	fread	950.
+0889	EF000C	80 data read	11110001	read	1.00
+0890	EF000D	05 data read	11110001	read	950.
+0891*	000417	ROR FFFF,X	11111001	opcde	1.00
+0892	000418	FF operand fetched	01101001	oprnd	950.
+0893	000419	FF operand fetched	01101001	oprnd	1.00
+0894	EE0419	FF false read	01100001	fread	950.
+0895	EF000C	80 data read	01110001	read	950.
+0896	EF000D	05 data read	01110001	read	1.00
+0897	EF000D	05 false read	01100001	fread	950.
+0898	EF000D	03 data written	00110001	write	1.00
+0899	EF000C	40 data written	00110001	write	950.
+0900*	00041A	ADC FFFFFFF,X	01111001	opcde	1.00
+0901	00041B	FF operand fetched	01101001	oprnd	950.
+0902	00041C	FF operand fetched	11101001	oprnd	1.00
+0903	00041D	FF operand fetched	11101001	oprnd	950.
+0904	00000C	40 data read	11110001	read	950.
+0905	00000D	03 data read	11110001	read	1.00
+0906*	00041E	STA (10,X)	11111001	opcde	950.
+0907	00041F	10 operand fetched	11101001	oprnd	1.00
+0908	00041F	10 false read	11100001	fread	950.
+0909	00051D	00 data read	11110001	read	1.00
+0910	00051E	00 data read	11110001	read	950.
+0911	EE0000	C0 data written	10110001	write	1.00
+0912	EE0001	0F data written	10110001	write	950.
+0913*	000420	STA 10,S	11111001	opcde	950.
+0914	000421	10 operand fetched	11101001	oprnd	1.00
+0915	000421	10 false read	01100001	fread	950.
+0916	000808	C0 data written	00110001	write	1.00
+0917	000809	0F data written	00110001	write	950.

State Listing _____ Data acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTFA	T
Base	[HEX]	ASM	[BIN]	[USP]	[Rel]
[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0918*	000422	STY 10	01111001	opcde	1.00
+0919	000423	10 operand fetched	01101001	oprnd	950.
+0920	000610	0D data written	00110001	write	1.00
+0921*	000424	STA 10	01111001	opcde	950.
+0922	000425	10 operand fetched	01101001	oprnd	950.
+0923	000610	C0 data written	00110001	write	1.12
+0924	000611	0F data written	00110001	write	1.00
+0925*	000426	STX 10	11111001	opcde	950.
+0926	000427	10 operand fetched	11101001	oprnd	1.00
+0927	000610	0D data written	10110001	write	950.
+0928*	000428	STA [10]	11111001	opcde	1.00
+0929	000429	10 operand fetched	11101001	oprnd	950.
+0930	000610	0D data read	11110001	read	950.
+0931	000611	0F data read	11110001	read	1.00
+0932	000612	0D data read	11110001	read	950.
+0933	000F0D	C0 data written	10110001	write	1.00
+0934	000F0E	0F data written	10110001	write	950.
+0935*	00042A	DEY	11111001	opcde	1.00
+0936	00042B	89 false read	11100001	fread	950.
+0937*	00042B	BIT \$1177	11111001	opcde	1.00
+0938	00042C	77 operand fetched	01101001	oprnd	950.
+0939	00042D	11 operand fetched	01101001	oprnd	950.
+0940*	00042E	TXA	01111001	opcde	1.00
+0941	00042F	8B false read	01100001	fread	950.
+0942*	00042F	PHB	01111001	opcde	1.00
+0943	000430	8C false read	01100001	fread	950.
+0944	0007F8	EE data written	00110001	write	1.00
+0945*	000430	STY FFFF	01111001	opcde	950.
+0946	000431	FF operand fetched	01101001	oprnd	1.00
+0947	000432	FF operand fetched	01101001	oprnd	950.
+0948	EEFFFF	0C data written	10110001	write	1.00
+0949*	000433	STA FFFF	11111001	opcde	950.
+0950	000434	FF operand fetched	11101001	oprnd	950.
+0951	000435	FF operand fetched	11101001	oprnd	1.00
+0952	EEFFFF	0D data written	10110001	write	950.
+0953	EF0000	00 data written	10110001	write	1.00
+0954*	000436	STX FFFF	11111001	opcde	950.
+0955	000437	FF operand fetched	11101001	oprnd	1.00
+0956	000438	FF operand fetched	11101001	oprnd	950.
+0957	EEFFFF	0D data written	10110001	write	1.00
+0958*	000439	STA FFFFFF	11111001	opcde	950.
+0959	00043A	FF operand fetched	11101001	oprnd	950.
+0960	00043B	FF operand fetched	11101001	oprnd	1.00
+0961	00043C	FF operand fetched	01101001	oprnd	950.
+0962	FFFFFF	0D data written	00110001	write	1.00
+0963	000000	00 data written	00110001	write	950.
+0964*	00043D	STA (10),Y	01111001	opcde	1.00
+0965	00043E	10 operand fetched	01101001	oprnd	950.
+0966	000610	0D data read	01110001	read	950.
+0967	000611	0F data read	01110001	read	1.00
+0968	EE0F19	3B false read	01100001	fread	950.

State Listing _____ Data acquired Jun 12 1985 10:20

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USP]	[Rel]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0969	EE0F19	0D data written	00110001	write	1.00
+0970	EE0F1A	00 data written	00110001	write	950.
+0971*	00043F	STA (10)	11111001	opcode	1.00
+0972	000440	10 operand fetched	11101001	oprnd	950.
+0973	000510	0D data read	11110001	read	1.00
+0974	000511	0F data read	11110001	read	950.
+0975	EE0F0D	0D data written	10110001	write	1.00
+0976	EE0F0E	00 data written	10110001	write	950.
+0977*	000441	STA (10,S),Y	11111001	opcode	950.
+0978	000442	10 operand fetched	11101001	oprnd	1.00
+0979	000442	10 false read	11100001	fread	950.
+0980	000807	C0 data read	11110001	read	1.00
+0981	000808	C0 data read	11110001	read	950.
+0982	000808	C0 false read	11100001	fread	1.00
+0983	EEC0CC	0D data written	10110001	write	950.
+0984	EEC0CD	00 data written	00110001	write	1.00
+0985*	000443	STY 10,X	01111001	opcode	950.
+0986	000444	10 operand fetched	01101001	oprnd	950.
+0987	000444	10 false read	01100001	fread	1.00
+0988	00051D	0C data written	00110001	write	1.12
+0989*	000445	STA 10,X	01111001	opcode	950.
+0990	000446	10 operand fetched	01101001	oprnd	1.00
+0991	000446	10 false read	01100001	fread	950.
+0992	00051D	0D data written	00110001	write	1.00
+0993	00051E	00 data written	00110001	write	950.
+0994*	000447	STX 10,Y	11111001	opcode	950.
+0995	000448	10 operand fetched	11101001	oprnd	1.00
+0996	000448	10 false read	11100001	fread	950.
+0997	00051C	0D data written	10110001	write	1.00
+0998*	000449	STA [10],Y	11111001	opcode	950.
+0999	00044A	10 operand fetched	11101001	oprnd	1.00
+1000	000510	0D data read	11110001	read	950.
+1001	000511	0F data read	11110001	read	1.00
+1002	000512	0D data read	11110001	read	950.
+1003	0D0F19	0D data written	10110001	write	950.
+1004	0D0F1A	00 data written	10110001	write	1.00
+1005*	00044B	TYA	11111001	opcode	950.
+1006	00044C	99 false read	11100001	fread	1.00
+1007*	00044C	STA FFFF,Y	01111001	opcode	950.
+1008	00044D	FF operand fetched	01101001	oprnd	1.00
+1009	00044E	FF operand fetched	01101001	oprnd	950.
+1010	EEFF0B	FF false read	01100001	fread	1.00
+1011	EF000B	0C data written	00110001	write	950.
+1012	EF000C	00 data written	00110001	write	950.
+1013*	00044F	TSX	01111001	opcode	1.00
+1014	000450	9A false read	01100001	fread	950.
+1015*	000450	TXS	01111001	opcode	1.00
+1016	000451	9B false read	01100001	fread	950.
+1017*	000451	TXY	11111001	opcode	1.00
+1018	000452	9C false read	11100001	fread	950.

State Listing _____ Date acquired Jun 12 1985 11:11

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HEX]	[ASM]	[BIN]	[USP]	[Relc]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0001*	000452	STZ FFFF	11111001	opcde	950.
+0002	000453	FF operand fetched	11101001	oprnd	1.00
+0003	000454	FF operand fetched	11101001	oprnd	950.
+0004	EEFFFF	00 data written	10110001	write	1.00
+0005	EF0000	00 data written	10110001	write	950.
+0006*	000455	STA FFFF,X	11111001	opcde	1.00
+0007	000456	FF operand fetched	11101001	oprnd	950.
+0008	000457	FF operand fetched	11101001	oprnd	1.00
+0009	EEFFF6	00 false read	11100001	fread	950.
+0010	EF00F6	0C data written	10110001	write	950.
+0011	EF00F7	00 data written	10110001	write	1.00
+0012*	000458	STZ FFFF,X	01111001	opcde	950.
+0013	000459	FF operand fetched	01101001	oprnd	1.00
+0014	00045A	FF operand fetched	01101001	oprnd	950.
+0015	EE045A	FF false read	01100001	fread	1.00
+0016	EF00F6	00 data written	00110001	write	950.
+0017	EF00F7	00 data written	00110001	write	1.00
+0018*	00045B	STA FFFFF,X	01111001	opcde	950.
+0019	00045C	FF operand fetched	01101001	oprnd	950.
+0020	00045D	FF operand fetched	01101001	oprnd	1.00
+0021	00045E	FF operand fetched	01101001	oprnd	950.
+0022	0000F6	0C data written	10110001	write	1.00
+0023	0000F7	00 data written	10110001	write	950.
+0024*	00045F	LDY #77	11111001	opcde	1.00
+0025	000460	77 operand fetched	11101001	oprnd	950.
+0026*	000461	LDA (10,X)	11111001	opcde	1.00
+0027	000462	10 operand fetched	11101001	oprnd	950.
+0028	000462	10 false read	11100001	fread	950.
+0029	000707	63 data read	11110001	read	1.00
+0030	000708	20 data read	11110001	read	950.
+0031	EE2063	00 data read	11110001	read	1.00
+0032	EE2064	00 data read	11110001	read	950.
+0033*	000463	LDX #77	11111001	opcde	1.00
+0034	000464	77 operand fetched	11101001	oprnd	950.
+0035*	000465	LDA 10,S	01111001	opcde	1.12
+0036	000466	10 operand fetched	01101001	oprnd	1.00
+0037	000466	10 false read	01100001	fread	950.
+0038	000107	00 data read	01110001	read	950.
+0039	000108	09 data read	01110001	read	1.00
+0040*	000467	LDY 10	01111001	opcde	950.
+0041	000468	10 operand fetched	01101001	oprnd	1.00
+0042	000610	0D data read	01110001	read	950.
+0043*	000469	LDA 10	01111001	opcde	1.00
+0044	00046A	10 operand fetched	01101001	oprnd	950.
+0045	000610	0D data read	11110001	read	1.00
+0046	000611	08 data read	11110001	read	950.
+0047*	00046B	LDX 10	11111001	opcde	950.
+0048	00046C	10 operand fetched	11101001	oprnd	1.00
+0049	000610	0D data read	11110001	read	950.
+0050*	00046D	LDA [10]	11111001	opcde	1.00
+0051	00046E	10 operand fetched	11101001	oprnd	950.

State Listing _____ Data acquired Jun 12 1985 11:11

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TJ
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0052	000610	0D data read	11110001	read	1.00
+0053	000611	08 data read	11110001	read	950.
+0054	000612	0D data read	11110001	read	1.00
+0055	0D080D	0D data read	11110001	read	950.
+0056	0D080E	0D data read	11110001	read	950.
+0057	00046F	TAY	11111001	opcode	1.00
+0058	000470	AA false read	01100001	fread	950.
+0059	000470	TAX	01111001	opcode	1.00
+0060	000471	AB false read	01100001	fread	950.
+0061	000471	PLB	01111001	opcode	1.00
+0062	000472	AC false read	01100001	fread	950.
+0063	000472	AC false read	01100001	fread	1.00
+0064	0000F8	0F data read	01110001	read	950.
+0065	000472	LDY FFFF	01111001	opcode	950.
+0066	000473	FF operand fetched	01101001	oprnd	1.00
+0067	000474	FF operand fetched	01101001	oprnd	950.
+0068	0FFFFFFF	00 data read	11110001	read	1.00
+0069	000475	LDA FFFF	11111001	opcode	950.
+0070	000476	FF operand fetched	11101001	oprnd	1.00
+0071	000477	FF operand fetched	11101001	oprnd	950.
+0072	0FFFFFFF	00 data read	11110001	read	1.00
+0073	100000	00 data read	11110001	read	950.
+0074	000478	LDX FFFF	11111001	opcode	950.
+0075	000479	FF operand fetched	11101001	oprnd	1.00
+0076	00047A	FF operand fetched	11101001	oprnd	950.
+0077	0FFFFFFF	00 data read	11110001	read	1.00
+0078	00047B	LDA FFFFFFFF	11111001	opcode	950.
+0079	00047C	FF operand fetched	11101001	oprnd	1.00
+0080	00047D	FF operand fetched	11101001	oprnd	950.
+0081	00047E	FF operand fetched	01101001	oprnd	1.00
+0082	FFFFFFF	00 data read	01110001	read	950.
+0083	000000	00 data read	01110001	read	950.
+0084	00047F	LDA (10),Y	01111001	opcode	1.00
+0085	000480	10 operand fetched	01101001	oprnd	950.
+0086	000610	0D data read	01110001	read	1.00
+0087	000611	08 data read	01110001	read	950.
+0088	0F080D	0D data read	01110001	read	1.00
+0089	0F080E	0D data read	01110001	read	950.
+0090	000481	LDA (10)	01111001	opcode	1.00
+0091	000482	10 operand fetched	11101001	oprnd	950.
+0092	000610	0D data read	11110001	read	950.
+0093	000611	08 data read	11110001	read	1.00
+0094	0F080D	0D data read	11110001	read	950.
+0095	0F080E	0D data read	11110001	read	1.00
+0096	000483	LDA (10,S),Y	11111001	opcode	950.
+0097	000484	10 operand fetched	11101001	oprnd	1.00
+0098	000484	10 false read	11100001	fread	950.
+0099	000108	09 data read	11110001	read	1.00
+0100	000109	70 data read	11110001	read	1.12
+0101	000109	70 false read	11100001	fread	950.
+0102	0F7009	0F data read	11110001	read	950.

Label: ADDR
Base / LEX
Apple 65816 Inverse 1.0
ASM
BIN
USF
EXTRA
T
>

+0103	0F700A	0F data read	11110001	read	1.00
+0104	000485	LDY 10,X	01111001	opcode	950.
+0105	000486	10 operand fetched	01101001	oprnd	1.00
+0106	000486	10 operand fetched	01100001	freed	950.
+0107	000510	0D data read	01110001	read	1.00
+0108	000487	LDA 10,X	01111001	opcode	950.
+0109	000488	10 operand fetched	01101001	oprnd	1.00
+0110	000488	10 false read	01100001	freed	950.
+0111	000510	0D data read	01110001	read	1.00
+0112	000511	08 data read	01110001	read	1.00
+0113	000489	LDX 10,Y	01111001	opcode	950.
+0114	00048A	10 operand fetched	11101001	oprnd	1.00
+0115	00048A	10 false read	11100001	freed	950.
+0116	000510	0D data read	11110001	read	1.00
+0117	00048B	LDA 10,Y	11111001	opcode	950.
+0118	00048C	10 operand fetched	11101001	oprnd	1.00
+0119	000510	0D data read	11110001	read	950.
+0120	000511	08 data read	11110001	read	950.
+0121	000512	0D data read	11110001	read	1.00
+0122	00081A	0D data read	11110001	read	950.
+0123	00081B	0D data read	11111001	read	1.00
+0124	00048D	CLV	11111001	opcode	950.
+0125	00048E	B9 false read	11100001	freed	1.00
+0126	00048E	LDA FFFF,Y	11111001	opcode	950.
+0127	00048F	FF operand fetched	01101001	oprnd	1.00
+0128	000490	FF operand fetched	01100001	freed	950.
+0129	0F0490	FF false read	01110001	read	1.00
+0130	10000C	0D data read	01110001	read	950.
+0131	10000D	0D data read	01111001	opcode	1.00
+0132	000491	TX	01100001	freed	950.
+0133	000492	BC false read	01111001	opcode	1.00
+0134	000492	LDY FFFF,X	01111001	opcode	950.
+0135	000493	FF operand fetched	01101001	oprnd	1.00
+0136	000494	FF operand fetched	01100001	freed	950.
+0137	0F0494	FF false read	11100001	freed	950.
+0138	10000C	0D data read	11110001	read	1.00
+0139	000495	LDA FFFF,X	11111001	opcode	950.
+0140	000496	FF operand fetched	11101001	oprnd	950.
+0141	000497	FF operand fetched	11101001	oprnd	1.00
+0142	0F0497	FF false read	11110001	read	1.00
+0143	10000C	0D data read	11110001	read	950.
+0144	10000D	0D data read	11111001	opcode	1.00
+0145	000498	LDX FFFF,Y	11111001	opcode	950.
+0146	000499	FF operand fetched	11101001	oprnd	950.
+0147	00049A	FF operand fetched	11101001	oprnd	950.
+0148	0FFFFF	0D data read	11111001	read	1.00
+0149	00049B	LDA FFFF,X	11111001	opcode	950.
+0150	00049C	FF operand fetched	01101001	oprnd	1.00
+0151	00049D	FF operand fetched	01101001	oprnd	950.
+0152	00049E	FF operand fetched	01101001	oprnd	1.00
+0153	FFFFFF	0D data read	01110001	read	950.

State Listing _____ Data acquired Jun 12 1985 11:11

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HLX]	[ASM]	[BIN]	[USR]	[Rele]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0154	000000	00 data read	01110001	read	1.00
+0155	00049F	CPY #77	01111001	opcode	950.
+0156	0004A0	77 operand fetched	01101001	oprnd	950.
+0157	0004A1	CMP (10,X)	01111001	opcode	1.00
+0158	0004A2	10 operand fetched	01101001	oprnd	950.
+0159	0004A2	10 false read	01100001	fread	1.00
+0160	000510	0D data read	11110001	read	950.
+0161	000511	08 data read	11110001	read	1.00
+0162	0F080D	0D data read	11110001	read	950.
+0163	0F080E	00 data read	11110001	read	1.00
+0164	0004A3	CMP 10,S	11111001	opcode	950.
+0165	0004A4	10 operand fetched	11101001	oprnd	1.12
+0166	0004A4	10 false read	11100001	fread	950.
+0167	000108	09 data read	11110001	read	1.00
+0168	000109	70 data read	11110001	read	950.
+0169	0004A5	CPY 10	11111001	opcode	1.00
+0170	0004A6	10 operand fetched	11101001	oprnd	950.
+0171	000510	0D data read	11110001	read	1.00
+0172	0004A7	CMP 10	11111001	opcode	950.
+0173	0004A8	10 operand fetched	01101001	oprnd	1.00
+0174	000510	0D data read	01110001	read	950.
+0175	000511	08 data read	01110001	read	950.
+0176	0004A9	DEC 10	01111001	opcode	1.00
+0177	0004AA	10 operand fetched	01101001	oprnd	950.
+0178	000510	0D data read	01110001	read	1.00
+0179	000511	08 data read	01110001	read	950.
+0180	000511	08 false read	01100001	fread	1.00
+0181	000511	08 data written	00110001	write	950.
+0182	000510	0C data written	00110001	write	1.00
+0183	0004AB	CMP [10]	11111001	opcode	950.
+0184	0004AC	10 operand fetched	11101001	oprnd	950.
+0185	000510	0C data read	11110001	read	1.00
+0186	000511	08 data read	11110001	read	950.
+0187	000512	0D data read	11110001	read	1.00
+0188	0D080C	00 data read	11110001	read	950.
+0189	0D080D	0D data read	11110001	read	1.00
+0190	0004AD	INY	11111001	opcode	950.
+0191	0004AE	C9 false read	11100001	fread	1.00
+0192	0004AE	CMP #1177	11111001	opcode	950.
+0193	0004AF	77 operand fetched	11101001	oprnd	950.
+0194	0004B0	11 operand fetched	11101001	oprnd	1.00
+0195	0004B1	DEX	11111001	opcode	950.
+0196	0004B2	58 false read	01100001	fread	1.00
+0197	0004B2	CLI	01111001	opcode	950.
+0198	0004B3	CB false read	01100001	fread	1.00
+0199	0004B3	WAI	01111001	opcode	950.
+0200	0004B4	78 false read	01100001	fread	1.00
+0201	0004B4	78 false read	01100001	fread	950.
+0202	0004B4	SEI	01111001	opcode	950.
+0203	0004B4	78 false read	01100001	fread	1.00
+0204	0000F8	00 data written	00110001	write	950.

State Listing _____ Data acquired Jun 12 1985 11:11
 <!

Label: ADDR Apple 65816 InvAsm 1.0 STAT EXTRA T:
 Base > [HEX] [ASM] [BIN] [USP] [Rela]

[Addr]	XXXXXX	Instructions	XXXXXXXX	XXXXX	
+0205	0000F7	04 data written	00110001	write	1.00
+0206	0000F6	B4 data written	10110001	write	950.
+0207	0000F5	90 data written	10110001	write	1.00
+0208	00FFEE	74 irq native vpull	11010001	vpull	950.
+0209	00FFEF	02 high byte of vpull	11010001	vpull	1.00
+0210*	000274	RTI	11111001	opcode	950.
+0211	000275	A0 false read	11100001	fread	950.
+0212	000275	A0 false read	11100001	fread	1.00
+0213	0000F5	90 data read	11110001	read	950.
+0214	0000F6	B4 data read	11110001	read	1.00
+0215	0000F7	04 data read	11110001	read	950.
+0216	0000F8	00 data read	11110001	read	1.00
+0217*	0004B4	SEI	11111001	opcode	950.
+0218	0004B5	CC false read	11100001	fread	1.00
+0219*	0004B5	CPY FFFF	01111001	opcode	950.
+0220	0004B6	FF operand fetched	01101001	oprnd	950.
+0221	0004B7	FF operand fetched	01101001	oprnd	1.00
+0222	0FFFFF	00 data read	01110001	read	950.
+0223*	0004B8	CMP FFFF	01111001	opcode	1.00
+0224	0004B9	FF operand fetched	01101001	oprnd	950.
+0225	0004BA	FF operand fetched	01101001	oprnd	1.00
+0226	0FFFFF	00 data read	01110001	read	950.
+0227	100000	00 data read	01110001	read	1.00
+0228*	0004B6	DEC FFFF	01111001	opcode	950.
+0229	0004BC	FF operand fetched	11101001	oprnd	950.
+0230	0004BD	FF operand fetched	11101001	oprnd	1.12
+0231	0FFFFF	00 data read	11110001	read	1.00
+0232	100000	00 data read	11110001	read	950.
+0233	100000	00 false read	11100001	fread	1.00
+0234	100000	FF data written	10110001	write	950.
+0235	0FFFFF	FF data written	10110001	write	1.00
+0236*	0004BE	CMP FFFFFFFF	11111001	opcode	950.
+0237	0004BF	FF operand fetched	11101001	oprnd	1.00
+0238	0004C0	FF operand fetched	11101001	oprnd	950.
+0239	0004C1	FF operand fetched	11101001	oprnd	950.
+0240	FFFFFF	FF data read	11110001	read	1.00
+0241	000000	FF data read	11110001	read	950.
+0242*	0004C2	CMP (10),Y	01111001	opcode	1.00
+0243	0004C3	10 operand fetched	01101001	oprnd	950.
+0244	000510	0C data read	01110001	read	1.00
+0245	000511	08 data read	01110001	read	950.
+0246	0F080D	0D data read	01110001	read	1.00
+0247	0F080E	00 data read	01110001	read	950.
+0248*	0004C4	CMP (10)	01111001	opcode	950.
+0249	0004C5	10 operand fetched	01101001	oprnd	1.00
+0250	000510	0C data read	01110001	read	950.
+0251	000511	08 data read	01110001	read	1.00
+0252	0F080C	00 data read	11110001	read	950.
+0253	0F080D	0D data read	11110001	read	1.00
+0254*	0004C6	CMP (10,S),Y	11111001	opcode	950.
+0255	0004C7	10 operand fetched	11101001	oprnd	1.00

State Listing _____ Data acquired Jun 12 1985 11:11

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	[HEX]	[ASM]	[BIN]	[USE]	[Rela]
[Mer]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0256	0004C7	10 false read	11100001	fread	950.
+0257	000108	09 data read	11110001	read	950.
+0258	000109	70 data read	11110001	read	1.00
+0259	000109	70 false read	11100001	fread	950.
+0260	0F700A	0F data read	11110001	read	1.00
+0261	0F700B	0F data read	11110001	read	950.
+0262*	0004C8	PEI 10	11111001	opcode	1.00
+0263	0004C9	10 operand fetched	11101001	oprnd	950.
+0264	000610	0C data read	11110001	read	1.00
+0265	000611	08 data read	01110001	read	950.
+0266	0000F8	08 data written	00110001	write	950.
+0267	0000F7	0C data written	00110001	write	1.00
+0268*	0004CA	CMP 10,X	01111001	opcode	950.
+0269	0004CB	10 operand fetched	01101001	oprnd	1.00
+0270	0004CB	10 false read	01100001	fread	950.
+0271	00070F	20 data read	01110001	read	1.00
+0272	000710	69 data read	01110001	read	950.
+0273*	0004CC	DEC 10,X	01111001	opcode	1.00
+0274	0004CD	10 operand fetched	01101001	oprnd	950.
+0275	0004CD	10 false read	11100001	fread	950.
+0276	00070F	20 data read	11110001	read	1.00
+0277	000710	69 data read	11110001	read	950.
+0278	000710	69 false read	11100001	fread	1.00
+0279	000710	69 data written	10110001	write	950.
+0280	00070F	1F data written	10110001	write	1.00
+0281*	0004CE	CMP [10],Y	11111001	opcode	950.
+0282	0004CF	10 operand fetched	11101001	oprnd	1.00
+0283	000610	0C data read	11110001	read	950.
+0284	000611	08 data read	11110001	read	950.
+0285	000612	0D data read	11110001	read	1.00
+0286	0D080D	0D data read	11110001	read	950.
+0287	0D080E	0D data read	11110001	read	1.00
+0288*	0004D0	CMP FFFF,Y	01111001	opcode	950.
+0289	0004D1	FF operand fetched	01101001	oprnd	1.00
+0290	0004D2	FF operand fetched	01101001	oprnd	950.
+0291	0F04D2	FF false read	01100001	fread	1.00
+0292	100000	FF data read	01110001	read	950.
+0293	100001	08 data read	01110001	read	950.
+0294*	0004D3	PHX	01111001	opcode	1.00
+0295	0004D4	DD false read	01100001	fread	1.12
+0296	0000F6	FF data written	00110001	write	950.
+0297*	0004D4	CMP FFFF,X	01111001	opcode	1.00
+0298	0004D5	FF operand fetched	11101001	oprnd	950.
+0299	0004D6	FF operand fetched	11101001	oprnd	1.00
+0300	0F04D6	FF false read	11100001	fread	950.
+0301	1000FE	0F data read	11110001	read	1.00
+0302	1000FF	B0 data read	11110001	read	950.
+0303*	0004D7	DEX	11111001	opcode	950.
+0304	0004D8	DE false read	11100001	fread	1.00
+0305*	0004D8	DEC FFFF,X	11111001	opcode	950.
+0306	0004D9	FF operand fetched	11101001	oprnd	1.00

State Listing _____ Date acquired Jun 12 1985 11:11

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[BIN]	[USE]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0307	0004DA	FF operand fetched	11101001	oprnd	960.
+0308	0F04DA	FF false read	11100001	fread	1.00
+0309	1000FD	EF data read	11110001	read	960.
+0310	1000FE	0F data read	11110001	read	1.00
+0311	1000FE	0F false read	01100001	fread	960.
+0312	1000FE	0F data written	00110001	write	960.
+0313	1000FD	EE data written	00110001	write	1.00
+0314*	0004DB	CMP FFFFFFF,X	01111001	opcde	960.
+0315	0004DC	FF operand fetched	01101001	oprnd	1.00
+0316	0004DD	FF operand fetched	01101001	oprnd	960.
+0317	0004DE	FF operand fetched	01101001	oprnd	1.00
+0318	0000FD	EE data read	01110001	read	960.
+0319	0000FE	0F data read	01110001	read	1.00
+0320*	0004DF	CPX #77	01111001	opcde	960.
+0321	0004E0	77 operand fetched	11101001	oprnd	960.
+0322*	0004E1	SBC (10,X)	11111001	opcde	1.00
+0323	0004E2	10 operand fetched	11101001	oprnd	960.
+0324	0004E2	10 false read	11100001	fread	1.00
+0325	00070E	0D data read	11110001	read	960.
+0326	00070F	1F data read	11110001	read	1.00
+0327	0F1F0D	3B data read	11110001	read	960.
+0328	0F1F0E	0D data read	11110001	read	1.00
+0329*	0004E3	SBC 10,S	11111001	opcde	960.
+0330	0004E4	10 operand fetched	11101001	oprnd	960.
+0331	0004E4	10 false read	11100001	fread	1.00
+0332	000105	40 data read	11110001	read	960.
+0333	000106	08 data read	11110001	read	1.00
+0334*	0004E5	CPX 10	01111001	opcde	960.
+0335	0004E6	10 operand fetched	01101001	oprnd	1.00
+0336	000610	0C data read	01110001	read	960.
+0337*	0004E7	SBC 10	01111001	opcde	1.00
+0338	0004E8	10 operand fetched	01101001	oprnd	960.
+0339	000610	0C data read	01110001	read	960.
+0340	000611	08 data read	01110001	read	1.00
+0341*	0004E9	INC 10	01111001	opcde	960.
+0342	0004EA	10 operand fetched	01101001	oprnd	1.00
+0343	000610	0C data read	01110001	read	960.
+0344	000611	08 data read	11110001	read	1.00
+0345	000611	08 false read	11100001	fread	960.
+0346	000611	08 data written	10110001	write	1.00
+0347	000610	0D data written	10110001	write	960.
+0348*	0004EB	SBC [10]	11111001	opcde	960.
+0349	0004EC	10 operand fetched	11101001	oprnd	1.00
+0350	000610	0D data read	11110001	read	960.
+0351	000611	08 data read	11110001	read	1.00
+0352	000612	0D data read	11110001	read	960.
+0353	0D080D	0D data read	11110001	read	1.00
+0354	0D080E	00 data read	11110001	read	960.
+0355*	0004ED	INX	11111001	opcde	1.00
+0356	0004EE	E9 false read	11100001	fread	960.
+0357*	0004EE	SBC #1177	01111001	opcde	960.

State Listing _____ Data acquired Jun 12 1985 11:11

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
Base	> [HEX]	[ASM]	[BIN]	[USE]	[Rela]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	[XXXX/]	
+0358	0004EF	77 operand fetched	01101001	oprnd	1.00
+0359	0004F0	11 operand fetched	01101001	oprnd	950.
+0360	0004F1	NOP	01111001	opcde	1.12
+0361	0004F2	EB false read	01100001	fread	1.00
+0362	0004F2	XBA	01111001	opcde	950.
+0363	0004F3	EC false read	01100001	fread	1.00
+0364	0004F3	EC false read	01100001	fread	950.
+0365	0004F3	CPX FFFF	01111001	opcde	1.00
+0366	0004F4	FF operand fetched	01101001	oprnd	950.
+0367	0004F5	FF operand fetched	11101001	oprnd	950.
+0368	0FFFFF	FF data read	11110001	read	1.00
+0369	0004F6	SBC FFFF	11111001	opcde	950.
+0370	0004F7	FF operand fetched	11101001	oprnd	1.00
+0371	0004F8	FF operand fetched	11101001	oprnd	950.
+0372	0FFFFF	FF data read	11110001	read	1.00
+0373	100000	FF data read	11110001	read	950.
+0374	0004F9	INC FFFF	11111001	opcde	1.00
+0375	0004FA	FF operand fetched	11101001	oprnd	950.
+0376	0004FB	FF operand fetched	11101001	oprnd	950.
+0377	0FFFFF	FF data read	11110001	read	1.00
+0378	100000	FF data read	11110001	read	950.
+0379	100000	FF false read	11100001	fread	1.00
+0380	100000	00 data written	00110001	write	950.
+0381	0FFFFF	00 data written	00110001	write	1.00
+0382	0004FC	SBC FFFFFFF	01111001	opcde	950.
+0383	0004FD	FF operand fetched	01101001	oprnd	1.00
+0384	0004FE	FF operand fetched	01101001	oprnd	950.
+0385	0004FF	FF operand fetched	01101001	oprnd	950.
+0386	FFFFFF	00 data read	01110001	read	1.00
+0387	000000	00 data read	01110001	read	950.
+0388	000500	SBC (10),Y	01111001	opcde	1.00
+0389	000501	10 operand fetched	01101001	oprnd	950.
+0390	000510	0D data read	11110001	read	1.00
+0391	000511	08 data read	11110001	read	950.
+0392	0F080E	00 data read	11110001	read	1.00
+0393	0F080F	0D data read	11110001	read	950.
+0394	000502	SBC (10)	11111001	opcde	950.
+0395	000503	10 operand fetched	11101001	oprnd	1.00
+0396	000510	0D data read	11110001	read	950.
+0397	000511	08 data read	11110001	read	1.00
+0398	0F080D	0D data read	11110001	read	950.
+0399	0F080E	00 data read	11110001	read	1.00
+0400	000504	SBC (10,S),Y	11111001	opcde	950.
+0401	000505	10 operand fetched	11101001	oprnd	1.00
+0402	000505	10 false read	11100001	fread	950.
+0403	000105	40 data read	01110001	read	950.
+0404	000106	08 data read	01110001	read	1.00
+0405	000106	08 false read	01100001	fread	950.
+0406	0F0841	0F data read	01110001	read	1.00
+0407	0F0842	F2 data read	01110001	read	950.
+0408	000506	PEA 1177	01111001	opcde	1.00

State Listing _____ Date acquired Jun 12 1985 11:11

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T
base	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mar]	XXXXXX	[Instructions]	XXXXXXXXX	[XXXXX]	
+0409	000507	77 operand fetched	01101001	oprnd	950.
+0410	000508	11 operand fetched	01101001	oprnd	1.00
+0411	0000F5	11 data written	00110001	write	950.
+0412	0000F4	77 data written	00110001	write	950.
+0413*	000509	SBC 10,X	11111001	opcde	1.00
+0414	00050A	10 operand fetched	11101001	oprnd	950.
+0415	00050A	10 false read	11100001	fread	1.00
+0416	00070F	1F data read	11110001	read	950.
+0417	000710	69 data read	11110001	read	1.00
+0418*	00050B	INC 10,X	11111001	opcde	950.
+0419	00050C	10 operand fetched	11101001	oprnd	1.00
+0420	00050C	10 false read	11100001	fread	950.
+0421	00070F	1F data read	11110001	read	950.
+0422	000710	69 data read	11110001	read	1.00
+0423	000710	69 false read	11100001	fread	950.
+0424	000710	69 data written	10110001	write	1.00
+0425	00070F	20 data written	10110001	write	1.12
+0426*	00050D	SBC [10],Y	01111001	opcde	950.
+0427	00050E	10 operand fetched	01101001	oprnd	1.00
+0428	000610	0D data read	01110001	read	950.
+0429	000611	08 data read	01110001	read	950.
+0430	000612	0D data read	01110001	read	1.00
+0431	0D080E	00 data read	01110001	read	950.
+0432	0D080F	0D data read	01110001	read	1.00
+0433*	00050F	SED	01111001	opcde	950.
+0434	000510	D8 false read	01100001	fread	1.00
+0435*	000510	CLD	01111001	opcde	950.
+0436	000511	F9 false read	11100001	fread	1.00
+0437*	000511	SBC FFFF,Y	11111001	opcde	950.
+0438	000512	FF operand fetched	11101001	oprnd	1.00
+0439	000513	FF operand fetched	11101001	oprnd	950.
+0440	0F0513	FF false read	11100001	fread	950.
+0441	100000	00 data read	11110001	read	1.00
+0442	100001	08 data read	11110001	read	950.
+0443*	000514	PLX	11111001	opcde	1.00
+0444	000515	FD false read	11100001	fread	950.
+0445	000515	FD false read	11100001	fread	1.00
+0446	0000F4	77 data read	11110001	read	950.
+0447*	000515	SBC FFFF,X	11111001	opcde	1.00
+0448	000516	FF operand fetched	11101001	oprnd	950.
+0449	000517	FF operand fetched	01101001	oprnd	950.
+0450	0F0517	FF false read	01100001	fread	1.00
+0451	100076	59 data read	01110001	read	950.
+0452	100077	0E data read	01110001	read	1.00
+0453*	000518	INC FFFF,X	01111001	opcde	950.
+0454	000519	FF operand fetched	01101001	oprnd	1.00
+0455	00051A	FF operand fetched	01101001	oprnd	950.
+0456	0F051A	FF false read	01100001	fread	1.00
+0457	100076	59 data read	01110001	read	950.
+0458	100077	0E data read	01110001	read	950.
+0459	100077	0E false read	11100001	fread	1.00

State Listing _____ Data acquired Jun 12 1985 11:11

Label> ADDR Apple 65016 Invhsm 1.0 STAT EXTRA T
Base > [HEX] [ASM] [BIN] [USR] [Relo]

[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0460	100077	0E data written	10110001	write	960.
+0461	100076	5A data written	10110001	write	1.00
+0462*	00051B	SBC FFFFFFF,X	11111001	opcd	960.
+0463	00051C	FF operand fetched	11101001	oprnd	1.00
+0464	00051D	FF operand fetched	11101001	oprnd	960.
+0465	00051E	FF operand fetched	11101001	oprnd	1.00
+0466	000076	5A data read	11110001	read	960.
+0467	000077	0E data read	11110001	read	960.
+0468*	00051F	STP	11111001	opcd	1.00
+0469	000520	73 false read	11100001	fread	960.
+0470	730520	73 false read	11100000	fread	1.00
+0471	730520	73 false read	11100000	fread	960.
+0472	730520	73 false read	01100000	fread	1.00
+0473	730520	73 false read	01100000	fread	960.
+0474	730520	73 false read	01100000	fread	1.00
+0475	730520	73 false read	01100000	fread	960.
+0476	730520	73 false read	01100000	fread	960.
+0477	730520	73 false read	01100000	fread	1.00
+0478	730520	73 false read	01100000	fread	960.
+0479	730520	73 false read	01100000	fread	1.00
+0480	730520	73 false read	01100000	fread	960.
+0481	730520	73 false read	01100000	fread	1.00
+0482	730520	73 false read	11100000	fread	960.
+0483	730520	73 false read	11100000	fread	1.00
+0484	730520	73 false read	11100000	fread	960.
+0485	730520	73 false read	11100000	fread	960.
+0486	730520	73 false read	11100000	fread	1.00
+0487	730520	73 false read	11100000	fread	960.
+0488	730520	73 false read	11100000	fread	1.00
+0489	730520	73 false read	11100000	fread	960.
+0490	730520	73 false read	11100000	fread	1.12
+0491	730520	73 false read	11100000	fread	1.00
+0492	730520	73 false read	11100000	fread	960.
+0493	730520	73 false read	11100000	fread	960.
+0494	730520	73 false read	11100000	fread	1.00
+0495	730520	73 false read	01100000	fread	960.
+0496	730520	73 false read	01100000	fread	1.00
+0497	730520	73 false read	01100000	fread	960.
+0498	730520	73 false read	01100000	fread	1.00
+0499	730520	73 false read	01100000	fread	960.
+0500	730520	73 false read	01100000	fread	1.00
+0501	730520	73 false read	01100000	fread	960.
+0502	730520	73 false read	01100000	fread	1.00
+0503	730520	73 false read	01100000	fread	960.
+0504	730520	73 false read	01100000	fread	960.
+0505	730520	73 false read	11100000	fread	1.00
+0506	730520	73 false read	11100000	fread	960.
+0507	730520	73 false read	11100000	fread	1.00
+0508	730520	73 false read	11100000	fread	960.
+0509	730520	73 false read	11100000	fread	1.00
+0510	730520	73 false read	11100000	fread	960.

65SC816

**NON-branching
opcodes**

e=0

m=1

x=0

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0000*	000300	CLC	01111111	opcde	0.
+0001	000301	78 false read	01100111	fread	1.00
+0002*	000301	SEI	01111111	opcde	950.
+0003	000302	D8 false read	01100111	fread	1.00
+0004*	000302	CLD	01111111	opcde	950.
+0005	000303	FB false read	11100111	fread	1.00
+0006*	000303	XCE	11111111	opcde	950.
+0007	000304	C2 false read	11100111	fread	950.
+0008*	000304	REP #30	11111101	opcde	1.00
+0009	000305	30 operand fetched	11101101	oprnd	950.
+0010	000305	30 false read	11100101	fread	1.00
+0011*	000306	LDA #0600	11111001	opcde	950.
+0012	000307	00 operand fetched	11101000	oprnd	1.00
+0013	000308	06 operand fetched	11101000	oprnd	950.
+0014*	000309	TCD	11111000	opcde	1.00
+0015	00030A	A9 false read	11100000	fread	950.
+0016*	00030A	LDA #07FF	11111000	opcde	950.
+0017	00030B	FF operand fetched	11101000	oprnd	1.00
+0018	00030C	07 operand fetched	01101000	oprnd	950.
+0019*	00030D	TCS	01111000	opcde	1.00
+0020	00030E	E2 false read	01100000	fread	950.
+0021*	00030E	SEP #20	01111000	opcde	1.00
+0022	00030F	20 operand fetched	01101000	oprnd	950.
+0023	00030F	20 false read	01100000	fread	950.
+0024*	000310	BRK 10	01111100	opcde	1.00
+0025	000311	10 operand fetched	01101100	oprnd	950.
+0026	0007FF	00 data written	00110100	write	1.00
+0027	0007FE	03 data written	00110100	write	950.
+0028	0007FD	12 data written	10110100	write	1.00
+0029	0007FC	25 data written	10110100	write	950.
+0030	00FFE6	20 break native vpull	11010100	vpull	1.00
+0031	00FFE7	02 high byte of vpull	11010100	vpull	950.
+0032*	000220	RTI	11111100	opcde	1.00
+0033	000221	B3 false read	11100100	fread	950.
+0034	000221	B3 false read	11100100	fread	950.
+0035	0007FC	25 data read	11110100	read	1.00
+0036	0007FD	12 data read	11110100	read	950.
+0037	0007FE	03 data read	11110100	read	1.00
+0038	0007FF	00 data read	11110100	read	950.
+0039*	000312	ORA (10,X)	11111100	opcde	1.00
+0040	000313	10 operand fetched	11101100	oprnd	950.
+0041	000313	10 false read	01100100	fread	1.00
+0042	000687	20 data read	01110100	read	950.
+0043	000688	63 data read	01110100	read	950.
+0044	006320	00 data read	01110100	read	1.00
+0045*	000314	COP 11	01111100	opcde	950.
+0046	000315	11 operand fetched	01101100	oprnd	1.00
+0047	0007FF	00 data written	00110100	write	950.
+0048	0007FE	03 data written	00110100	write	1.00
+0049	0007FD	16 data written	00110100	write	950.
+0050	0007FC	A5 data written	00110100	write	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USP]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0051	00FFE4	04 cop native vpull	11010100	vpull	960.
+0052	00FFE5	02 high byte of vpull	11010100	vpull	960.
+0053*	000204	RTI	11111100	opcde	1.00
+0054	000205	A0 false read	11100100	fread	1.12
+0055	000205	A0 false read	11100100	fread	960.
+0056	0007FC	A5 data read	11110100	read	1.00
+0057	0007FD	16 data read	11110100	read	960.
+0058	0007FE	03 data read	11110100	read	1.00
+0059	0007FF	00 data read	11110100	read	960.
+0060*	000316	DRA 10,S	11111100	opcde	960.
+0061	000317	10 operand fetched	11101100	oprnd	1.00
+0062	000317	10 false read	11100100	fread	960.
+0063	00080F	0F data read	11110100	read	1.00
+0064*	000318	TSB 10	01111100	opcde	960.
+0065	000319	10 operand fetched	01101100	oprnd	1.00
+0066	000610	0D data read	01110100	read	960.
+0067	000610	0D false read	01100100	fread	1.00
+0068	000610	FF data written	00110100	write	960.
+0069*	00031A	DRA 10	01111100	opcde	1.00
+0070	00031B	10 operand fetched	01101100	oprnd	960.
+0071	000610	FF data read	01110100	read	960.
+0072*	00031C	ASL 10	01111100	opcde	1.00
+0073	00031D	10 operand fetched	01101100	oprnd	960.
+0074	000610	FF data read	11110100	read	1.00
+0075	000610	FF false read	11100100	fread	960.
+0076	000610	FE data written	10110100	write	1.00
+0077*	00031E	DRA [10]	11111100	opcde	960.
+0078	00031F	10 operand fetched	11101100	oprnd	1.00
+0079	000610	FE data read	11110100	read	960.
+0080	000611	00 data read	11110100	read	960.
+0081	000612	20 data read	11110100	read	1.00
+0082	2000FE	0F data read	11110100	read	960.
+0083*	000320	PHP	11111100	opcde	1.00
+0084	000321	09 false read	11100100	fread	960.
+0085	0007FF	A5 data written	10110100	write	1.00
+0086*	000321	DRA \$77	11111100	opcde	960.
+0087	000322	77 operand fetched	01101100	oprnd	1.00
+0088*	000323	ASL Accumulator	01111100	opcde	960.
+0089	000324	0B false read	01100100	fread	960.
+0090*	000324	PHD	01111100	opcde	1.00
+0091	000325	0C false read	01100100	fread	960.
+0092	0007FE	06 data written	00110100	write	1.00
+0093	0007FD	00 data written	00110100	write	960.
+0094*	000325	TSB FFFF	01111100	opcde	1.00
+0095	000326	FF operand fetched	01101100	oprnd	960.
+0096	000327	FF operand fetched	01101100	oprnd	1.00
+0097	00FFFF	02 data read	11110100	read	960.
+0098	00FFFF	02 false read	11100100	fread	960.
+0099	00FFFF	FE data written	10110100	write	1.00
+0100*	000328	DRA FFFF	11111100	opcde	960.
+0101	000329	FF operand fetched	11101100	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0102	00032A	FF operand fetched	11101100	oprnd	950.
+0103	00FFFF	02 data read	11110100	read	1.00
+0104*	00032B	ASL FFFF	11111100	opcde	950.
+0105	00032C	FF operand fetched	11101100	oprnd	1.00
+0106	00032D	FF operand fetched	11101100	oprnd	950.
+0107	00FFFF	02 data read	11110100	read	950.
+0108	00FFFF	02 false read	11100100	fread	1.00
+0109	00FFFF	04 data written	10110100	write	950.
+0110*	00032E	ORA FFFFFFFF	01111100	opcde	1.00
+0111	00032F	FF operand fetched	01101100	oprnd	950.
+0112	000330	FF operand fetched	01101100	oprnd	1.00
+0113	000331	FF operand fetched	01101100	oprnd	950.
+0114	FFFFFF	02 data read	01110100	read	1.00
+0115*	000332	ORA (10),Y	01111100	opcde	950.
+0116	000333	10 operand fetched	01101100	oprnd	950.
+0117	000610	FE data read	01110100	read	1.00
+0118	000611	00 data read	01110100	read	950.
+0119	000611	00 false read	01100100	fread	1.12
+0120	000102	00 data read	11110100	read	1.00
+0121*	000334	ORA (10)	11111100	opcde	950.
+0122	000335	10 operand fetched	11101100	oprnd	1.00
+0123	000610	FE data read	11110100	read	950.
+0124	000611	00 data read	11110100	read	950.
+0125	0000FE	0F data read	11110100	read	1.00
+0126*	000336	ORA (10,S),Y	11111100	opcde	950.
+0127	000337	10 operand fetched	11101100	oprnd	1.00
+0128	000337	10 false read	11100100	fread	950.
+0129	00080C	3C data read	11110100	read	1.00
+0130	00080D	0D data read	11110100	read	950.
+0131	00080D	0D false read	11100100	fread	1.00
+0132	000D40	5C data read	11110100	read	950.
+0133*	000338	TRB 10	01111100	opcde	1.00
+0134	000339	10 operand fetched	01101100	oprnd	950.
+0135	000610	FE data read	01110100	read	950.
+0136	000610	FE false read	01100100	fread	1.00
+0137	000610	00 data written	00110100	write	950.
+0138*	00033A	ORA 10,X	01111100	opcde	1.00
+0139	00033B	10 operand fetched	01101100	oprnd	950.
+0140	00033B	10 false read	01100100	fread	1.00
+0141	000687	20 data read	01110100	read	950.
+0142*	00033C	ASL 10,X	01111100	opcde	1.00
+0143	00033D	10 operand fetched	11101100	oprnd	950.
+0144	00033D	10 false read	11100100	fread	950.
+0145	000687	20 data read	11110100	read	1.00
+0146	000687	20 false read	11100100	fread	950.
+0147	000687	40 data written	10110100	write	1.00
+0148*	00033E	ORA [10],Y	11111100	opcde	950.
+0149	00033F	10 operand fetched	11101100	oprnd	1.00
+0150	000610	00 data read	11110100	read	950.
+0151	000611	00 data read	11110100	read	950.
+0152	000612	20 data read	11110100	read	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USE]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0153	200004	F2 data read	11110100	read	960.
+0154*	000340	ORA FFFF,Y	11111100	opcode	1.00
+0155	000341	FF operand fetched	11101100	oprnd	960.
+0156	000342	FF operand fetched	01101100	oprnd	1.00
+0157	000342	FF false read	01100100	fread	960.
+0158	010003	0B data read	01110100	read	1.00
+0159*	000343	INC Accumulator	01111100	opcode	960.
+0160	000344	1C false read	01100100	fread	1.00
+0161*	000344	TRB FFFF	01111100	opcode	960.
+0162	000345	FF operand fetched	01101100	oprnd	960.
+0163	000346	FF operand fetched	01101100	oprnd	1.00
+0164	00FFFF	02 data read	01110100	read	960.
+0165	00FFFF	02 false read	01100100	fread	1.00
+0166	00FFFF	02 data written	10110100	write	960.
+0167*	000347	ORA FFFF,X	11111100	opcode	1.00
+0168	000348	FF operand fetched	11101100	oprnd	960.
+0169	000349	FF operand fetched	11101100	oprnd	1.00
+0170	000349	FF false read	11100100	fread	960.
+0171	010076	0E data read	11110100	read	960.
+0172*	00034A	ASL FFFF,X	11111100	opcode	1.00
+0173	00034B	FF operand fetched	11101100	oprnd	960.
+0174	00034C	FF operand fetched	11101100	oprnd	1.00
+0175	00034C	FF false read	11100100	fread	960.
+0176	010076	0E data read	11110100	read	1.00
+0177	010076	0E false read	11100100	fread	960.
+0178	010076	1C data written	10110100	write	1.00
+0179*	00034D	ORA FFFFF,X	01111100	opcode	960.
+0180	00034E	FF operand fetched	01101100	oprnd	960.
+0181	00034F	FF operand fetched	01101100	oprnd	1.00
+0182	000350	FF operand fetched	01101100	oprnd	960.
+0183	000076	1C data read	01110100	read	1.00
+0184*	000351	AND (10,X)	01111100	opcode	1.12
+0185	000352	10 operand fetched	01101100	oprnd	960.
+0186	000352	10 false read	01100100	fread	1.00
+0187	000587	40 data read	01110100	read	960.
+0188	000588	63 data read	01110100	read	960.
+0189	006340	00 data read	11110100	read	1.00
+0190*	000353	AND 10,S	11111100	opcode	960.
+0191	000354	10 operand fetched	11101100	oprnd	1.00
+0192	000354	10 false read	11100100	fread	960.
+0193	00080C	3C data read	11110100	read	1.00
+0194*	000355	BIT 10	11111100	opcode	960.
+0195	000356	10 operand fetched	11101100	oprnd	1.00
+0196	000610	00 data read	11110100	read	960.
+0197*	000357	AND 10	11111100	opcode	1.00
+0198	000358	10 operand fetched	11101100	oprnd	960.
+0199	000610	00 data read	11110100	read	960.
+0200*	000359	ROL 10	11111100	opcode	1.00
+0201	00035A	10 operand fetched	11101100	oprnd	960.
+0202	000610	00 data read	01110100	read	1.00
+0203	000610	00 false read	01100100	fread	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0204	000610	00 data written	00110100	write	1.00
+0205*	00035B	AND [10]	01111100	opcde	960.
+0206	00035C	10 operand fetched	01101100	oprnd	1.00
+0207	000610	00 data read	01110100	read	960.
+0208	000611	00 data read	01110100	read	960.
+0209	000612	20 data read	01110100	read	1.00
+0210	200000	00 data read	01110100	read	960.
+0211*	00035D	SEP #04	01111100	opcde	1.00
+0212	00035E	04 operand fetched	11101100	oprnd	960.
+0213	00035E	04 false read	11100100	fread	1.00
+0214*	00035F	PHP	11111100	opcde	960.
+0215	000360	28 false read	11100100	fread	1.00
+0216	0007FC	26 data written	10110100	write	960.
+0217*	000360	PLP	11111100	opcde	960.
+0218	000361	29 false read	11100100	fread	1.00
+0219	000361	29 false read	11100100	fread	960.
+0220	0007FC	26 data read	11110100	read	1.00
+0221*	000361	AND #77	11111100	opcde	960.
+0222	000362	77 operand fetched	11101100	oprnd	1.00
+0223*	000363	ROL Accumulator	11111100	opcde	960.
+0224	000364	28 false read	11100100	fread	960.
+0225*	000364	PLD	01111100	opcde	1.00
+0226	000365	2C false read	01100100	fread	960.
+0227	000365	2C false read	01100100	fread	1.00
+0228	0007FD	00 data read	01110100	read	960.
+0229	0007FE	06 data read	01110100	read	1.00
+0230*	000365	BIT FFFF	01111100	opcde	960.
+0231	000366	FF operand fetched	01101100	oprnd	1.00
+0232	000367	FF operand fetched	01101100	oprnd	960.
+0233	00FFFF	02 data read	01110100	read	1.00
+0234*	000368	AND FFFF	01111100	opcde	960.
+0235	000369	FF operand fetched	11101100	oprnd	960.
+0236	00036A	FF operand fetched	11101100	oprnd	1.00
+0237	00FFFF	02 data read	11110100	read	960.
+0238*	00036B	ROL FFFF	11111100	opcde	1.00
+0239	00036C	FF operand fetched	11101100	oprnd	960.
+0240	00036D	FF operand fetched	11101100	oprnd	1.00
+0241	00FFFF	02 data read	11110100	read	960.
+0242	00FFFF	02 false read	11100100	fread	1.00
+0243	00FFFF	04 data written	10110100	write	960.
+0244*	00036E	AND FFFFFFFF	11111100	opcde	960.
+0245	00036F	FF operand fetched	11101100	oprnd	1.00
+0246	000370	FF operand fetched	11101100	oprnd	960.
+0247	000371	FF operand fetched	11101100	oprnd	1.00
+0248	FFFFFF	02 data read	01110100	read	960.
+0249*	000372	AND (10),Y	01111100	opcde	1.12
+0250	000373	10 operand fetched	01101100	oprnd	1.00
+0251	000610	00 data read	01110100	read	960.
+0252	000611	00 data read	01110100	read	960.
+0253	000611	00 false read	01100100	fread	1.00
+0254	000004	F2 data read	01110100	read	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0255*	000374	AND (10)	01111100	opcde	1.00
+0256	000375	10 operand fetched	01101100	oprnd	960.
+0257	000610	00 data read	01110100	read	1.00
+0258	000611	00 data read	11110100	read	960.
+0259	000000	00 data read	11110100	read	1.00
+0260*	000376	AND (10,S),Y	11111100	opcde	960.
+0261	000377	10 operand fetched	11101100	oprnd	1.00
+0262	000377	10 false read	11100100	fread	960.
+0263	00080E	70 data read	11110100	read	960.
+0264	00080F	0F data read	11110100	read	1.00
+0265	00080F	0F false read	11100100	fread	960.
+0266	000F74	3B data read	11110100	read	1.00
+0267*	000378	BIT 10,X	11111100	opcde	960.
+0268	000379	10 operand fetched	11101100	oprnd	1.00
+0269	000379	10 false read	11100100	fread	960.
+0270	000687	40 data read	11110100	read	1.00
+0271*	00037A	AND 10,X	01111100	opcde	960.
+0272	00037B	10 operand fetched	01101100	oprnd	960.
+0273	00037B	10 false read	01100100	fread	1.00
+0274	000687	40 data read	01110100	read	960.
+0275*	00037C	ROL 10,X	01111100	opcde	1.00
+0276	00037D	10 operand fetched	01101100	oprnd	960.
+0277	00037D	10 false read	01100100	fread	1.00
+0278	000687	40 data read	01110100	read	960.
+0279	000687	40 false read	01100100	fread	960.
+0280	000687	80 data written	00110100	write	1.00
+0281*	00037E	AND [10],Y	11111100	opcde	960.
+0282	00037F	10 operand fetched	11101100	oprnd	1.00
+0283	000610	00 data read	11110100	read	960.
+0284	000611	00 data read	11110100	read	1.00
+0285	000612	20 data read	11110100	read	960.
+0286	200004	F2 data read	11110100	read	1.00
+0287*	000380	SEC	11111100	opcde	960.
+0288	000381	39 false read	11100100	fread	960.
+0289*	000381	AND FFFF,Y	11111100	opcde	1.00
+0290	000382	FF operand fetched	11101100	oprnd	960.
+0291	000383	FF operand fetched	11101100	oprnd	1.00
+0292	000383	FF false read	11100100	fread	960.
+0293	010003	0B data read	11110100	read	1.00
+0294*	000384	DEC Accumulator	01111100	opcde	960.
+0295	000385	3B false read	01100100	fread	1.00
+0296*	000385	TSC	01111100	opcde	960.
+0297	000386	3C false read	01100100	fread	1.00
+0298*	000386	BIT FFFF,X	01111100	opcde	960.
+0299	000387	FF operand fetched	01101100	oprnd	960.
+0300	000388	FF operand fetched	01101100	oprnd	1.00
+0301	000388	FF false read	01100100	fread	960.
+0302	010076	1C data read	01110100	read	1.00
+0303*	000389	AND FFFF,X	01111100	opcde	960.
+0304	00038A	FF operand fetched	11101100	oprnd	1.00
+0305	00038B	FF operand fetched	11101100	oprnd	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0306	00038B	FF false read	11100100	fread	1.00
+0307	010076	1C data read	11110100	read	960.
+0308*	00038C	ROL FFFF,X	11111100	opcde	960.
+0309	00038D	FF operand fetched	11101100	oprnd	1.00
+0310	00038E	FF operand fetched	11101100	oprnd	960.
+0311	00038E	FF false read	11100100	fread	1.00
+0312	010076	1C data read	11110100	read	960.
+0313	010076	1C false read	11100100	fread	1.00
+0314	010076	39 data written	10110100	write	1.12
+0315*	00038F	AND FFFFFFF,X	11111100	opcde	960.
+0316	000390	FF operand fetched	11101100	oprnd	960.
+0317	000391	FF operand fetched	01101100	oprnd	1.00
+0318	000392	FF operand fetched	01101100	oprnd	960.
+0319	000076	39 data read	01110100	read	1.00
+0320*	000393	EOR (10,X)	01111100	opcde	960.
+0321	000394	10 operand fetched	01101100	oprnd	1.00
+0322	000394	10 false read	01100100	fread	960.
+0323	000687	80 data read	01110100	read	1.00
+0324	000688	63 data read	01110100	read	960.
+0325	006380	00 data read	01110100	read	1.00
+0326*	000395	WDM 00	01111100	opcde	960.
+0327	000396	00 operand fetched	11101100	oprnd	960.
+0328*	000397	EOR 10,S	11111100	opcde	1.00
+0329	000398	10 operand fetched	11101100	oprnd	960.
+0330	000398	10 false read	11100100	fread	1.00
+0331	00080E	70 data read	11110100	read	960.
+0332*	000399	REP #20	11111100	opcde	1.00
+0333	00039A	20 operand fetched	11101100	oprnd	960.
+0334	00039A	20 false read	11100100	fread	1.00
+0335*	00039B	LDA #000F	11111000	opcde	960.
+0336	00039C	0F operand fetched	11101000	oprnd	960.
+0337	00039D	00 operand fetched	11101000	oprnd	1.00
+0338*	00039E	LDX #0004	11111000	opcde	960.
+0339	00039F	04 operand fetched	11101000	oprnd	1.00
+0340	0003A0	00 operand fetched	01101000	oprnd	960.
+0341*	0003A1	LDY #0004	01111000	opcde	1.00
+0342	0003A2	04 operand fetched	01101000	oprnd	960.
+0343	0003A3	00 operand fetched	01101000	oprnd	960.
+0344*	0003A4	SEP #20	01111000	opcde	1.00
+0345	0003A5	20 operand fetched	01101000	oprnd	960.
+0346	0003A5	20 false read	01100000	fread	1.00
+0347*	0003A6	MVP FFEE block move	01111100	opcde	960.
+0348	0003A7	EE operand fetched	01101100	oprnd	1.00
+0349	0003A8	FF operand fetched	01101100	oprnd	960.
+0350	FF0004	F2 data read	11110100	read	1.00
+0351	EE0004	F2 data written	10110100	write	960.
+0352	EE0004	F2 false read	11100100	fread	960.
+0353	EE0004	F2 false read	11100100	fread	1.00
+0354*	0003A6	MVP FFEE block move	11111100	opcde	960.
+0355	0003A7	EE operand fetched	11101100	oprnd	1.00
+0356	0003A8	FF operand fetched	11101100	oprnd	960.

State Listing

Label > ADDR		Apple 65816 InvAsm 1.0	STAT	EXTRA	<I
Base > [HEX]		[ASM]	[BIN]	[USP]	Ti
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0357	FF0003	0B data read	11110100	read	1.00
+0358	EE0003	0B data written	10110100	write	960.
+0359	EE0003	0B false read	11100100	fread	1.00
+0360	EE0003	0B false read	11100100	fread	960.
+0361*	0003A6	MVP FFEE block move	11111100	opcde	1.00
+0362	0003A7	EE operand fetched	11101100	oprnd	960.
+0363	0003A8	FF operand fetched	01101100	oprnd	960.
+0364	FF0002	E0 data read	01110100	read	1.00
+0365	EE0002	E0 data written	00110100	write	960.
+0366	EE0002	E0 false read	01100100	fread	1.00
+0367	EE0002	E0 false read	01100100	fread	960.
+0368*	0003A6	MVP FFEE block move	01111100	opcde	1.00
+0369	0003A7	EE operand fetched	01101100	oprnd	960.
+0370	0003A8	FF operand fetched	01101100	oprnd	1.00
+0371	FF0001	8F data read	01110100	read	960.
+0372	EE0001	8F data written	00110100	write	960.
+0373	EE0001	8F false read	11100100	fread	1.00
+0374	EE0001	8F false read	11100100	fread	960.
+0375*	0003A6	MVP FFEE block move	11111100	opcde	1.00
+0376	0003A7	EE operand fetched	11101100	oprnd	960.
+0377	0003A8	FF operand fetched	11101100	oprnd	1.00
+0378	FF0000	00 data read	11110100	read	960.
+0379	EE0000	00 data written	10110100	write	1.12
+0380	EE0000	00 false read	11100100	fread	960.
+0381	EE0000	00 false read	11100100	fread	1.00
+0382*	0003A6	MVP FFEE block move	11111100	opcde	960.
+0383	0003A7	EE operand fetched	11101100	oprnd	1.00
+0384	0003A8	FF operand fetched	11101100	oprnd	960.
+0385	FFFFFF	02 data read	11110100	read	1.00
+0386	EEFFFF	02 data written	00110100	write	960.
+0387	EEFFFF	02 false read	01100100	fread	1.00
+0388	EEFFFF	02 false read	01100100	fread	960.
+0389*	0003A6	MVP FFEE block move	01111100	opcde	960.
+0390	0003A7	EE operand fetched	01101100	oprnd	1.00
+0391	0003A8	FF operand fetched	01101100	oprnd	960.
+0392	FFFFFE	E4 data read	01110100	read	1.00
+0393	EEFFFE	E4 data written	00110100	write	960.
+0394	EEFFFE	E4 false read	01100100	fread	1.00
+0395	EEFFFE	E4 false read	01100100	fread	960.
+0396*	0003A6	MVP FFEE block move	11111100	opcde	1.00
+0397	0003A7	EE operand fetched	11101100	oprnd	960.
+0398	0003A8	FF operand fetched	11101100	oprnd	1.00
+0399	FFFFFD	E0 data read	11110100	read	960.
+0400	EEFFFD	E0 data written	10110100	write	960.
+0401	EEFFFD	E0 false read	11100100	fread	1.00
+0402	EEFFFD	E0 false read	11100100	fread	960.
+0403*	0003A6	MVP FFEE block move	11111100	opcde	1.00
+0404	0003A7	EE operand fetched	11101100	oprnd	960.
+0405	0003A8	FF operand fetched	11101100	oprnd	1.00
+0406	FFFFFC	04 data read	11110100	read	960.
+0407	EEFFFC	04 data written	10110100	write	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0408	EEFFFC	04 false read	11100100	fread	1.00
+0409	EEFFFC	04 false read	01100100	fread	950.
+0410*	0003A6	MVP FFEE block move	01111100	opcde	1.00
+0411	0003A7	EE operand fetched	01101100	oprnd	950.
+0412	0003A8	FF operand fetched	01101100	oprnd	1.00
+0413	FFFFFB	02 data read	01101000	read	950.
+0414	EEFFFB	02 data written	00110100	write	1.00
+0415	EEFFFB	02 false read	01100100	fread	950.
+0416	EEFFFB	02 false read	01100100	fread	950.
+0417*	0003A6	MVP FFEE block move	01111100	opcde	1.00
+0418	0003A7	EE operand fetched	01101100	oprnd	950.
+0419	0003A8	FF operand fetched	11101100	oprnd	1.00
+0420	FFFFFFA	C8 data read	11110100	read	950.
+0421	EEFFFA	C8 data written	10110100	write	1.00
+0422	EEFFFA	C8 false read	11100100	fread	950.
+0423	EEFFFA	C8 false read	11100100	fread	1.00
+0424*	0003A6	MVP FFEE block move	11111100	opcde	950.
+0425	0003A7	EE operand fetched	11101100	oprnd	1.00
+0426	0003A8	FF operand fetched	11101100	oprnd	950.
+0427	FFFFF9	02 data read	11110100	read	950.
+0428	EEFFF9	02 data written	10110100	write	1.00
+0429	EEFFF9	02 false read	11100100	fread	950.
+0430	EEFFF9	02 false read	11100100	fread	1.00
+0431*	0003A6	MVP FFEE block move	11111100	opcde	950.
+0432	0003A7	EE operand fetched	01101100	oprnd	1.00
+0433	0003A8	FF operand fetched	01101100	oprnd	950.
+0434	FFFFF8	AC data read	01110100	read	1.00
+0435	EEFFF8	AC data written	00110100	write	950.
+0436	EEFFF8	AC false read	01100100	fread	950.
+0437	EEFFF8	AC false read	01100100	fread	1.00
+0438*	0003A6	MVP FFEE block move	01111100	opcde	950.
+0439	0003A7	EE operand fetched	01101100	oprnd	1.00
+0440	0003A8	FF operand fetched	01101100	oprnd	950.
+0441	FFFFF7	00 data read	01110100	read	1.00
+0442	EEFFF7	00 data written	10110100	write	950.
+0443	EEFFF7	00 false read	11100100	fread	1.00
+0444	EEFFF7	00 false read	11100100	fread	1.08
+0445*	0003A6	MVP FFEE block move	11111100	opcde	1.00
+0446	0003A7	EE operand fetched	11101100	oprnd	950.
+0447	0003A8	FF operand fetched	11101100	oprnd	1.00
+0448	FFFFF6	00 data read	11110100	read	950.
+0449	EEFFF6	00 data written	10110100	write	1.00
+0450	EEFFF6	00 false read	11100100	fread	950.
+0451	EEFFF6	00 false read	11100100	fread	1.00
+0452*	0003A6	MVP FFEE block move	11111100	opcde	950.
+0453	0003A7	EE operand fetched	11101100	oprnd	1.00
+0454	0003A8	FF operand fetched	11101100	oprnd	950.
+0455	FFFFF5	02 data read	01110100	read	950.
+0456	EEFFF5	02 data written	00110100	write	1.00
+0457	EEFFF5	02 false read	01100100	fread	950.
+0458	EEFFF5	02 false read	01100100	fread	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Memb]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0459*	0003A9	EOR 10	01111100	opcde	960.
+0460	0003AA	10 operand fetched	01101100	oprnd	1.00
+0461	000610	00 data read	01110100	read	960.
+0462*	0003AB	LSR 10	01111100	opcde	1.00
+0463	0003AC	10 operand fetched	01101100	oprnd	960.
+0464	000610	00 data read	01110100	read	960.
+0465	000610	00 false read	11100100	fread	1.00
+0466	000610	00 data written	10110100	write	960.
+0467*	0003AD	EOR [10]	11111100	opcde	1.00
+0468	0003AE	10 operand fetched	11101100	oprnd	960.
+0469	000610	00 data read	11110100	read	1.00
+0470	000611	00 data read	11110100	read	960.
+0471	000612	20 data read	11110100	read	960.
+0472	200000	00 data read	11110100	read	1.00
+0473*	0003AF	PHA	11111100	opcde	960.
+0474	0003B0	49 false read	11100100	fread	1.00
+0475	0007FE	FF data written	10110100	write	960.
+0476*	0003B0	EOR \$77	11111100	opcde	1.00
+0477	0003B1	77 operand fetched	11101100	oprnd	960.
+0478*	0003B2	LSR Accumulator	01111100	opcde	1.00
+0479	0003B3	4B false read	01100100	fread	960.
+0480*	0003B3	PHK	01111100	opcde	960.
+0481	0003B4	4D false read	01100100	fread	1.00
+0482	0007FD	00 data written	00110100	write	960.
+0483*	0003B4	EOR FFFF	01111100	opcde	1.00
+0484	0003B5	FF operand fetched	01101100	oprnd	960.
+0485	0003B6	FF operand fetched	01101100	oprnd	1.00
+0486	EEFFFF	02 data read	01110100	read	960.
+0487*	0003B7	LSR FFFF	01111100	opcde	1.00
+0488	0003B8	FF operand fetched	11101100	oprnd	960.
+0489	0003B9	FF operand fetched	11101100	oprnd	1.00
+0490	EEFFFF	02 data read	11110100	read	960.
+0491	EEFFFF	02 false read	11100100	fread	960.
+0492	EEFFFF	01 data written	10110100	write	1.00
+0493*	0003BA	EOR FFFFFFFF	11111100	opcde	960.
+0494	0003BB	FF operand fetched	11101100	oprnd	1.00
+0495	0003BC	FF operand fetched	11101100	oprnd	960.
+0496	0003BD	FF operand fetched	11101100	oprnd	1.00
+0497	FFFFFF	02 data read	11110100	read	960.
+0498*	0003BE	EOR (10),Y	11111100	opcde	1.00
+0499	0003BF	10 operand fetched	11101100	oprnd	960.
+0500	000610	00 data read	11110100	read	960.
+0501	000611	00 data read	01110100	read	1.00
+0502	EE0611	00 false read	01100100	fread	960.
+0503	EEFFFF	90 data read	01110100	read	1.00
+0504*	0003C0	EOR (10)	01111100	opcde	960.
+0505	0003C1	10 operand fetched	01101100	oprnd	1.00
+0506	000610	00 data read	01110100	read	960.
+0507	000611	00 data read	01110100	read	1.00
+0508	EE0000	00 data read	01110100	read	960.
+0509*	0003C2	EOR (10,S),Y	01111100	opcde	1.12

State Listing

Label>	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<1
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0510	0003C3	10 operand fetched	01101100	oprnd	960.
+0511	0003C3	10 false read	11100100	fread	1.00
+0512	00080C	3C data read	11110100	read	960.
+0513	00080D	0D data read	11110100	read	1.00
+0514	00080D	0D false read	11100100	fread	960.
+0515	EF0030	5B data read	11110100	read	1.00
+0516*	0003C4	REP #20	11111100	opcde	960.
+0517	0003C5	20 operand fetched	11101100	oprnd	960.
+0518	0003C5	20 false read	11100100	fread	1.00
+0519*	0003C6	LDA #000F	11111000	opcde	960.
+0520	0003C7	0F operand fetched	11101000	oprnd	1.00
+0521	0003C8	00 operand fetched	11101000	oprnd	960.
+0522*	0003C9	LDX #FFFD	11111000	opcde	1.00
+0523	0003CA	FD operand fetched	11101000	oprnd	960.
+0524	0003C8	FF operand fetched	01101000	oprnd	1.00
+0525*	0003CC	LDY #FFFD	01111000	opcde	960.
+0526	0003CD	FD operand fetched	01101000	oprnd	960.
+0527	0003CE	FF operand fetched	01101000	oprnd	1.00
+0528*	0003CF	SEP #20	01111000	opcde	960.
+0529	0003D0	20 operand fetched	01101000	oprnd	1.00
+0530	0003D0	20 false read	01100000	fread	960.
+0531*	0003D1	MVN FFEE block move	01111100	opcde	1.00
+0532	0003D2	EE operand fetched	01101100	oprnd	960.
+0533	0003D3	FF operand fetched	01101100	oprnd	1.00
+0534	FFFFFFD	E0 data read	11110100	read	960.
+0535	EEFFFD	E0 data written	10110100	write	960.
+0536	EEFFFD	E0 false read	11100100	fread	1.00
+0537	EEFFFD	E0 false read	11100100	fread	960.
+0538*	0003D1	MVN FFEE block move	11111100	opcde	1.00
+0539	0003D2	EE operand fetched	11101100	oprnd	960.
+0540	0003D3	FF operand fetched	11101100	oprnd	1.00
+0541	FFFFFFE	E4 data read	11110100	read	960.
+0542	EEFFFE	E4 data written	10110100	write	1.00
+0543	EEFFFE	E4 false read	11100100	fread	960.
+0544	EEFFFE	E4 false read	11100100	fread	960.
+0545*	0003D1	MVN FFEE block move	11111100	opcde	1.00
+0546	0003D2	EE operand fetched	11101100	oprnd	960.
+0547	0003D3	FF operand fetched	01101100	oprnd	1.00
+0548	FFFFFFF	02 data read	01110100	read	960.
+0549	EEFFFF	02 data written	00110100	write	1.00
+0550	EEFFFF	02 false read	01100100	fread	960.
+0551	EEFFFF	02 false read	01100100	fread	1.00
+0552*	0003D1	MVN FFEE block move	01111100	opcde	960.
+0553	0003D2	EE operand fetched	01101100	oprnd	1.00
+0554	0003D3	FF operand fetched	01101100	oprnd	960.
+0555	FF0000	00 data read	01110100	read	960.
+0556	EE0000	00 data written	00110100	write	1.00
+0557	EE0000	00 false read	11100100	fread	960.
+0558	EE0000	00 false read	11100100	fread	1.00
+0559*	0003D1	MVN FFEE block move	11111100	opcde	960.
+0560	0003D2	EE operand fetched	11101100	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[BIN]	[USR]	[Rel]
[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0561	0003D3	FF operand fetched	11101100	oprnd	960.
+0562	FF0001	8F data read	11110100	read	1.00
+0563	EE0001	8F data written	10110100	write	960.
+0564	EE0001	8F false read	11100100	fread	960.
+0565	EE0001	8F false read	11100100	fread	1.00
+0566*	0003D1	MVN FFEE block move	11111100	opcde	960.
+0567	0003D2	EE operand fetched	11101100	oprnd	1.00
+0568	0003D3	FF operand fetched	11101100	oprnd	960.
+0569	FF0002	E0 data read	11110100	read	1.00
+0570	EE0002	E0 data written	00110100	write	960.
+0571	EE0002	E0 false read	01100100	fread	1.00
+0572	EE0002	E0 false read	01100100	fread	960.
+0573*	0003D1	MVN FFEE block move	01111100	opcde	960.
+0574	0003D2	EE operand fetched	01101100	oprnd	1.12
+0575	0003D3	FF operand fetched	01101100	oprnd	1.00
+0576	FF0003	0B data read	01110100	read	960.
+0577	EE0003	0B data written	00110100	write	1.00
+0578	EE0003	0B false read	01100100	fread	960.
+0579	EE0003	0B false read	01100100	fread	1.00
+0580*	0003D1	MVN FFEE block move	11111100	opcde	960.
+0581	0003D2	EE operand fetched	11101100	oprnd	960.
+0582	0003D3	FF operand fetched	11101100	oprnd	1.00
+0583	FF0004	F2 data read	11110100	read	960.
+0584	EE0004	F2 data written	10110100	write	1.00
+0585	EE0004	F2 false read	11100100	fread	960.
+0586	EE0004	F2 false read	11100100	fread	1.00
+0587*	0003D1	MVN FFEE block move	11111100	opcde	960.
+0588	0003D2	EE operand fetched	11101100	oprnd	1.00
+0589	0003D3	FF operand fetched	11101100	oprnd	960.
+0590	FF0005	09 data read	11110100	read	960.
+0591	EE0005	09 data written	10110100	write	1.00
+0592	EE0005	09 false read	11100100	fread	960.
+0593	EE0005	09 false read	01100100	fread	1.00
+0594*	0003D1	MVN FFEE block move	01111100	opcde	960.
+0595	0003D2	EE operand fetched	01101100	oprnd	1.00
+0596	0003D3	FF operand fetched	01101100	oprnd	960.
+0597	FF0006	EC data read	01110100	read	1.00
+0598	EE0006	EC data written	00110100	write	960.
+0599	EE0006	EC false read	01100100	fread	960.
+0600	EE0006	EC false read	01100100	fread	1.00
+0601*	0003D1	MVN FFEE block move	01111100	opcde	960.
+0602	0003D2	EE operand fetched	01101100	oprnd	1.00
+0603	0003D3	FF operand fetched	11101100	oprnd	960.
+0604	FF0007	0F data read	11110100	read	1.00
+0605	EE0007	0F data written	10110100	write	960.
+0606	EE0007	0F false read	11100100	fread	1.00
+0607	EE0007	0F false read	11100100	fread	960.
+0608*	0003D1	MVN FFEE block move	11111100	opcde	960.
+0609	0003D2	EE operand fetched	11101100	oprnd	1.00
+0610	0003D3	FF operand fetched	11101100	oprnd	960.
+0611	FF0008	B5 data read	11110100	read	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0612	EE0008	BS data written	10110100	write	960.
+0613	EE0008	BS false read	11100100	fread	1.00
+0614	EE0008	BS false read	11100100	fread	960.
+0615*	0003D1	MVN FFEE block move	11111100	opcde	1.00
+0616	0003D2	EE operand fetched	01101100	oprnd	960.
+0617	0003D3	FF operand fetched	01101100	oprnd	1.00
+0618	FF0009	8F data read	01110100	read	960.
+0619	EE0009	8F data written	00110100	write	960.
+0620	EE0009	8F false read	01100100	fread	1.00
+0621	EE0009	8F false read	01100100	fread	960.
+0622*	0003D1	MVN FFEE block move	01111100	opcde	1.00
+0623	0003D2	EE operand fetched	01101100	oprnd	960.
+0624	0003D3	FF operand fetched	01101100	oprnd	1.00
+0625	FF000A	F5 data read	01110100	read	960.
+0626	EE000A	F5 data written	10110100	write	1.00
+0627	EE000A	F5 false read	11100100	fread	960.
+0628	EE000A	F5 false read	11100100	fread	960.
+0629*	0003D1	MVN FFEE block move	11111100	opcde	1.00
+0630	0003D2	EE operand fetched	11101100	oprnd	960.
+0631	0003D3	FF operand fetched	11101100	oprnd	1.00
+0632	FF000B	0C data read	11110100	read	960.
+0633	EE000B	0C data written	10110100	write	1.00
+0634	EE000B	0C false read	11100100	fread	960.
+0635	EE000B	0C false read	11100100	fread	960.
+0636*	0003D1	MVN FFEE block move	11111100	opcde	1.00
+0637	0003D2	EE operand fetched	11101100	oprnd	960.
+0638	0003D3	FF operand fetched	11101100	oprnd	1.00
+0639	FF000C	3C data read	01110100	read	1.12
+0640	EE000C	3C data written	00110100	write	960.
+0641	EE000C	3C false read	01100100	fread	1.00
+0642	EE000C	3C false read	01100100	fread	960.
+0643*	0003D4	EOR 10,X	01111100	opcde	1.00
+0644	0003D5	10 operand fetched	01101100	oprnd	960.
+0645	0003D5	10 false read	01100100	fread	960.
+0646	00061D	00 data read	01110100	read	1.00
+0647*	0003D6	LSR 10,X	01111100	opcde	960.
+0648	0003D7	10 operand fetched	01101100	oprnd	1.00
+0649	0003D7	10 false read	11100100	fread	960.
+0650	00061D	00 data read	11110100	read	1.00
+0651	00061D	00 false read	11100100	fread	960.
+0652	00061D	00 data written	10110100	write	1.00
+0653*	0003D8	EOR [10],Y	11111100	opcde	960.
+0654	0003D9	10 operand fetched	11101100	oprnd	1.00
+0655	000610	00 data read	11110100	read	960.
+0656	000611	00 data read	11110100	read	960.
+0657	000612	20 data read	11110100	read	1.00
+0658	20000D	0D data read	11110100	read	960.
+0659*	0003DA	CLI	11111100	opcde	1.00
+0660	0003DB	78 false read	11100100	fread	960.
+0661*	0003DB	SEI	11111100	opcde	1.00
+0662	0003DC	59 false read	01100100	fread	960.

State Listing

Label:	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mark]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0663*	0003DC	EOR FFFF,Y	01111100	opcde	960.
+0664	0003DD	FF operand fetched	01101100	oprnd	1.00
+0665	0003DE	FF operand fetched	01101100	oprnd	960.
+0666	EE03DE	FF false read	01100100	fread	1.00
+0667	EF000C	3C data read	01110100	read	960.
+0668*	0003DF	PHY	01111100	opcde	1.00
+0669	0003E0	5D false read	01100100	fread	960.
+0670	0007FC	00 data written	00110100	write	1.00
+0671	0007FB	0D data written	00110100	write	960.
+0672*	0003E0	EOR FFFF,X	11111100	opcde	1.00
+0673	0003E1	FF operand fetched	11101100	oprnd	960.
+0674	0003E2	FF operand fetched	11101100	oprnd	960.
+0675	EE03E2	FF false read	11100100	fread	1.00
+0676	EF000C	3C data read	11110100	read	960.
+0677*	0003E3	LSR FFFF,X	11111100	opcde	1.00
+0678	0003E4	FF operand fetched	11101100	oprnd	960.
+0679	0003E5	FF operand fetched	11101100	oprnd	1.00
+0680	EE03E5	FF false read	11100100	fread	960.
+0681	EF000C	3C data read	11110100	read	1.00
+0682	EF000C	3C false read	11100100	fread	960.
+0683	EF000C	1E data written	10110100	write	960.
+0684*	0003E6	EOR FFFFFFF,X	11111100	opcde	1.00
+0685	0003E7	FF operand fetched	01101100	oprnd	960.
+0686	0003E8	FF operand fetched	01101100	oprnd	1.00
+0687	0003E9	FF operand fetched	01101100	oprnd	960.
+0688	00000C	1E data read	01110100	read	1.00
+0689*	0003EA	ADC (10,X)	01111100	opcde	960.
+0690	0003EB	10 operand fetched	01101100	oprnd	1.00
+0691	0003EB	10 false read	01100100	fread	960.
+0692	00061D	00 data read	01110100	read	960.
+0693	00061E	00 data read	01110100	read	1.00
+0694	EE0000	00 data read	01110100	read	960.
+0695*	0003EC	PER 1177 (delta=+0D88)	11111100	opcde	1.00
+0696	0003ED	88 operand fetched	11101100	oprnd	960.
+0697	0003EE	0D operand fetched	11101100	oprnd	1.00
+0698	0003EE	0D false read	11100100	fread	960.
+0699	0007FA	11 data written	10110100	write	960.
+0700	0007F9	77 data written	10110100	write	1.00
+0701*	0003EF	ADC 10,S	11111100	opcde	960.
+0702	0003F0	10 operand fetched	11101100	oprnd	1.00
+0703	0003F0	10 false read	11100100	fread	960.
+0704	000808	B5 data read	11110100	read	1.12
+0705*	0003F1	STZ 10	11111100	opcde	1.00
+0706	0003F2	10 operand fetched	11101100	oprnd	960.
+0707	000610	00 data written	10110100	write	1.00
+0708*	0003F3	ADC 10	01111100	opcde	960.
+0709	0003F4	10 operand fetched	01101100	oprnd	1.00
+0710	000610	00 data read	01110100	read	960.
+0711*	0003F5	ROR 10	01111100	opcde	960.
+0712	0003F6	10 operand fetched	01101100	oprnd	1.00
+0713	000610	00 data read	01110100	read	960.

State Listing

Label\ ADDR		Apple 65816 InvAsm 1.0	STAT	EXTRA	<1
Base > [HEX]		[ASM]	[BIN]	[USP]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0714	000610	00 false read	01100100	fread	1.00
+0715	000610	00 data written	00110100	write	960.
+0716*	0003F7	ADC (10)	01111100	opcde	1.00
+0717	0003F8	10 operand fetched	01101100	oprnd	960.
+0718	000610	00 data read	11110100	read	1.00
+0719	000611	00 data read	11110100	read	960.
+0720	000612	20 data read	11110100	read	960.
+0721	200000	00 data read	11110100	read	1.00
+0722*	0003F9	PHA	11111100	opcde	960.
+0723	0003FA	68 false read	11100100	fread	1.00
+0724	0007F8	A2 data written	10110100	write	960.
+0725*	0003FA	PLA	11111100	opcde	1.00
+0726	0003FB	69 false read	11100100	fread	960.
+0727	0003FB	69 false read	11100100	fread	960.
+0728	0007F8	A2 data read	11110100	read	1.00
+0729*	0003FB	ADC #77	11111100	opcde	960.
+0730	0003FC	77 operand fetched	11101100	oprnd	1.00
+0731*	0003FD	ROR Accumulator	01111100	opcde	960.
+0732	0003FE	6D false read	01100100	fread	1.00
+0733*	0003FE	ADC FFFF	01111100	opcde	960.
+0734	0003FF	FF operand fetched	01101100	oprnd	1.00
+0735	000400	FF operand fetched	01101100	oprnd	960.
+0736	EEFFFF	02 data read	01110100	read	960.
+0737*	000401	ROR FFFF	01111100	opcde	1.00
+0738	000402	FF operand fetched	01101100	oprnd	960.
+0739	000403	FF operand fetched	01101100	oprnd	1.00
+0740	EEFFFF	02 data read	01110100	read	960.
+0741	EEFFFF	02 false read	11100100	fread	1.00
+0742	EEFFFF	01 data written	10110100	write	960.
+0743*	000404	ADC FFFFFFFF	11111100	opcde	1.00
+0744	000405	FF operand fetched	11101100	oprnd	960.
+0745	000406	FF operand fetched	11101100	oprnd	1.00
+0746	000407	FF operand fetched	11101100	oprnd	960.
+0747	FFFFFF	02 data read	11110100	read	960.
+0748*	000408	ADC (10),Y	11111100	opcde	1.00
+0749	000409	10 operand fetched	11101100	oprnd	960.
+0750	000610	00 data read	11110100	read	1.00
+0751	000611	00 data read	11110100	read	960.
+0752	EE0611	00 false read	11100100	fread	1.00
+0753	EE000D	0D data read	11110100	read	960.
+0754*	00040A	ADC (10)	01111100	opcde	1.00
+0755	00040B	10 operand fetched	01101100	oprnd	960.
+0756	000610	00 data read	01110100	read	960.
+0757	000611	00 data read	01110100	read	1.00
+0758	EE000D	0D data read	01110100	read	960.
+0759*	00040C	ADC (10,S),Y	01111100	opcde	1.00
+0760	00040D	10 operand fetched	01101100	oprnd	960.
+0761	00040D	10 false read	01100100	fread	1.00
+0762	000808	85 data read	01110100	read	960.
+0763	000809	8F data read	01110100	read	960.
+0764	000809	8F false read	11100100	fread	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0765	EE8FC2	50 data read	11110100	read	950.
+0766*	00040E	STZ 10,X	11111100	opcde	1.00
+0767	00040F	10 operand fetched	11101100	oprnd	950.
+0768	00040F	10 false read	11100100	fread	1.00
+0769	00051D	00 data written	10110100	write	1.12
+0770*	000410	ADC 10,X	11111100	opcde	950.
+0771	000411	10 operand fetched	11101100	oprnd	1.00
+0772	000411	10 false read	11100100	fread	950.
+0773	00051D	00 data read	11110100	read	950.
+0774*	000412	ROR 10,X	11111100	opcde	1.00
+0775	000413	10 operand fetched	11101100	oprnd	950.
+0776	000413	10 false read	11100100	fread	1.00
+0777	00051D	00 data read	01110100	read	950.
+0778	00051D	00 false read	01100100	fread	1.00
+0779	00051D	00 data written	00110100	write	950.
+0780*	000414	ADC [10],Y	01111100	opcde	1.00
+0781	000415	10 operand fetched	01101100	oprnd	950.
+0782	000510	00 data read	01110100	read	950.
+0783	000511	00 data read	01110100	read	1.00
+0784	000512	20 data read	01110100	read	950.
+0785	20000D	0D data read	01110100	read	1.00
+0786*	000416	ADC FFFF,Y	01111100	opcde	950.
+0787	000417	FF operand fetched	11101100	oprnd	1.00
+0788	000418	FF operand fetched	11101100	oprnd	950.
+0789	EE0418	FF false read	11100100	fread	1.00
+0790	EF000C	1E data read	11110100	read	950.
+0791*	000419	PHY	11111100	opcde	950.
+0792	00041A	7A false read	11100100	fread	1.00
+0793	0007F8	00 data written	10110100	write	950.
+0794	0007F7	0D data written	10110100	write	1.00
+0795*	00041A	PLY	11111100	opcde	950.
+0796	00041B	7B false read	11100100	fread	1.00
+0797	00041B	7B false read	11100100	fread	950.
+0798	0007F7	0D data read	11110100	read	1.00
+0799	0007F8	00 data read	11110100	read	950.
+0800*	00041B	TDC	01111100	opcde	1.00
+0801	00041C	7D false read	01100100	fread	950.
+0802*	00041C	ADC FFFF,X	01111100	opcde	950.
+0803	00041D	FF operand fetched	01101100	oprnd	1.00
+0804	00041E	FF operand fetched	01101100	oprnd	950.
+0805	EE041E	FF false read	01100100	fread	1.00
+0806	EF000C	1E data read	01110100	read	950.
+0807*	00041F	ROR FFFF,X	01111100	opcde	1.00
+0808	000420	FF operand fetched	01101100	oprnd	950.
+0809	000421	FF operand fetched	01101100	oprnd	1.00
+0810	EE0421	FF false read	11100100	fread	950.
+0811	EF000C	1E data read	11110100	read	950.
+0812	EF000C	1E false read	11100100	fread	1.00
+0813	EF000C	0F data written	10110100	write	950.
+0814*	000422	ADC FFFFFFF,X	11111100	opcde	1.00
+0815	000423	FF operand fetched	11101100	oprnd	950.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HEX]	ASM	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	Instructions	XXXXXXXX	[XXXXXX]	
+0816	000424	FF operand fetched	11101100	oprnd	1.00
+0817	000425	FF operand fetched	11101100	oprnd	960.
+0818	00000C	0F data read	11110100	read	1.00
+0819*	000426	STA (10,X)	11111100	opcde	960.
+0820	000427	10 operand fetched	11101100	oprnd	960.
+0821	000427	10 false read	11100100	fread	1.00
+0822	00061D	00 data read	11110100	read	960.
+0823	00061E	00 data read	01110100	read	1.00
+0824	EE0000	2E data written	00110100	write	960.
+0825*	000428	STA 10,S	01111100	opcde	1.00
+0826	000429	10 operand fetched	01101100	oprnd	960.
+0827	000429	10 false read	01100100	fread	960.
+0828	000808	2E data written	00110100	write	1.00
+0829*	00042A	STY 10	01111100	opcde	960.
+0830	00042B	10 operand fetched	01101100	oprnd	1.00
+0831	000610	0D data written	00110100	write	960.
+0832	000611	00 data written	00110100	write	1.00
+0833*	00042C	STA 10	11111100	opcde	960.
+0834	00042D	10 operand fetched	11101100	oprnd	1.12
+0835	000610	2E data written	10110100	write	1.00
+0836*	00042E	STX 10	11111100	opcde	960.
+0837	00042F	10 operand fetched	11101100	oprnd	360.
+0838	000610	0D data written	10110100	write	1.00
+0839	000611	00 data written	10110100	write	960.
+0840*	000430	STA [10]	11111100	opcde	1.00
+0841	000431	10 operand fetched	11101100	oprnd	960.
+0842	000610	0D data read	11110100	read	1.00
+0843	000611	00 data read	11110100	read	960.
+0844	000612	20 data read	11110100	read	1.00
+0845	20000D	2E data written	10110100	write	960.
+0846*	000432	DEY	01111100	opcde	960.
+0847	000433	89 false read	01100100	fread	1.00
+0848*	000433	BIT #77	01111100	opcde	960.
+0849	000434	77 operand fetched	01101100	oprnd	1.00
+0850*	000435	TXA	01111100	opcde	960.
+0851	000436	8B false read	01100100	fread	1.00
+0852*	000436	PHB	01111100	opcde	960.
+0853	000437	8C false read	01100100	fread	1.00
+0854	0007F8	EE data written	00110100	write	960.
+0855*	000437	STY FFFF	01111100	opcde	960.
+0856	000438	FF operand fetched	11101100	oprnd	1.00
+0857	000439	FF operand fetched	11101100	oprnd	960.
+0858	EEFFFF	0C data written	10110100	write	1.00
+0859	EF0000	00 data written	10110100	write	960.
+0860*	00043A	STA FFFF	11111100	opcde	1.00
+0861	00043B	FF operand fetched	11101100	oprnd	960.
+0862	00043C	FF operand fetched	11101100	oprnd	1.00
+0863	EEFFFF	0D data written	10110100	write	960.
+0864*	00043D	STX FFFF	11111100	opcde	960.
+0865	00043E	FF operand fetched	11101100	oprnd	1.00
+0866	00043F	FF operand fetched	11101100	oprnd	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0867	EEFFFF	0D data written	10110100	write	1.00
+0868	EF0000	00 data written	10110100	write	950.
+0869*	000440	STA FFFFFF	01111100	opcde	1.00
+0870	000441	FF operand fetched	01101100	oprnd	950.
+0871	000442	FF operand fetched	01101100	oprnd	1.00
+0872	000443	FF operand fetched	01101100	oprnd	950.
+0873	FFFFFF	0D data written	00110100	write	1.00
+0874*	000444	STA (10),Y	01111100	opcde	950.
+0875	000445	10 operand fetched	01101100	oprnd	950.
+0876	000610	0D data read	01110100	read	1.00
+0877	000611	00 data read	01110100	read	950.
+0878	EE0611	00 false read	01100100	fread	1.00
+0879	EE0019	0D data written	10110100	write	950.
+0880*	000446	STA (10)	11111100	opcde	1.00
+0881	000447	10 operand fetched	11101100	oprnd	950.
+0882	000610	0D data read	11110100	read	1.00
+0883	000611	00 data read	11110100	read	950.
+0884	EE000D	0D data written	10110100	write	950.
+0885*	000448	STA (10,S),Y	11111100	opcde	1.00
+0886	000449	10 operand fetched	11101100	oprnd	950.
+0887	000449	10 false read	11100100	fread	1.00
+0888	000807	0F data read	11110100	read	950.
+0889	000808	2E data read	11110100	read	1.00
+0890	000808	2E false read	11100100	fread	950.
+0891	EE2E1B	0D data written	10110100	write	950.
+0892*	00044A	STY 10,X	01111100	opcde	1.00
+0893	00044B	10 operand fetched	01101100	oprnd	950.
+0894	00044B	10 false read	01100100	fread	1.00
+0895	00061D	0C data written	00110100	write	950.
+0896	00061E	00 data written	00110100	write	1.00
+0897*	00044C	STA 10,X	01111100	opcde	950.
+0898	00044D	10 operand fetched	01101100	oprnd	1.00
+0899	00044D	10 false read	01100100	fread	1.12
+0900	00061D	0D data written	00110100	write	950.
+0901*	00044E	STX 10,Y	01111100	opcde	950.
+0902	00044F	10 operand fetched	11101100	oprnd	1.00
+0903	00044F	10 false read	11100100	fread	950.
+0904	00061C	0D data written	10110100	write	1.00
+0905	00061D	00 data written	10110100	write	950.
+0906*	000450	STA [10],Y	11111100	opcde	1.00
+0907	000451	10 operand fetched	11101100	oprnd	950.
+0908	000610	0D data read	11110100	read	1.00
+0909	000611	00 data read	11110100	read	950.
+0910	000612	20 data read	11110100	read	950.
+0911	200019	0D data written	10110100	write	1.00
+0912*	000452	TYA	11111100	opcde	950.
+0913	000453	99 false read	11100100	fread	1.00
+0914*	000453	STA FFFF,Y	11111100	opcde	950.
+0915	000454	FF operand fetched	01101100	oprnd	1.00
+0916	000455	FF operand fetched	01101100	oprnd	950.
+0917	EE0455	FF false read	01100100	fread	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0918	EF000B	0C data written	00110100	write	960.
+0919*	000456	TSX	01111100	opcde	960.
+0920	000457	9A false read	01100100	fread	1.00
+0921*	000457	TXS	01111100	opcde	960.
+0922	000458	9B false read	01100100	fread	1.00
+0923*	000458	TXY	01111100	opcde	960.
+0924	000459	9C false read	01100100	fread	1.00
+0925*	000459	STZ FFFF	11111100	opcde	960.
+0926	00045A	FF operand fetched	11101100	oprnd	1.00
+0927	00045B	FF operand fetched	11101100	oprnd	960.
+0928	EEFFFF	00 data written	10110100	write	960.
+0929*	00045C	STA FFFF,X	11111100	opcde	1.00
+0930	00045D	FF operand fetched	11101100	oprnd	960.
+0931	00045E	FF operand fetched	11101100	oprnd	1.00
+0932	EE045E	FF false read	11100100	fread	960.
+0933	EF07F6	0C data written	10110100	write	1.00
+0934*	00045F	STZ FFFF,X	11111100	opcde	960.
+0935	000460	FF operand fetched	11101100	oprnd	1.00
+0936	000461	FF operand fetched	11101100	oprnd	960.
+0937	EE0461	FF false read	11100100	fread	1.00
+0938	EF07F6	00 data written	00110100	write	960.
+0939*	000462	STA FFFFFFF,X	01111100	opcde	960.
+0940	000463	FF operand fetched	01101100	oprnd	1.00
+0941	000464	FF operand fetched	01101100	oprnd	960.
+0942	000465	FF operand fetched	01101100	oprnd	1.00
+0943	0007F6	0C data written	00110100	write	960.
+0944*	000466	LDY #1177	01111100	opcde	1.00
+0945	000467	77 operand fetched	01101100	oprnd	960.
+0946	000468	11 operand fetched	01101100	oprnd	1.00
+0947*	000469	LDA (10,X)	01111100	opcde	960.
+0948	00046A	10 operand fetched	11101100	oprnd	960.
+0949	00046A	10 false read	11100100	fread	1.00
+0950	000E07	64 data read	11110100	read	960.
+0951	000E08	79 data read	11110100	read	1.00
+0952	EE7964	EE data read	11110100	read	960.
+0953*	00046B	LDX #1177	11111100	opcde	1.00
+0954	00046C	77 operand fetched	11101100	oprnd	960.
+0955	00046D	11 operand fetched	11101100	oprnd	960.
+0956*	00046E	LDA 10,S	11111100	opcde	1.00
+0957	00046F	10 operand fetched	11101100	oprnd	960.
+0958	00046F	10 false read	11100100	fread	1.00
+0959	000807	0F data read	11110100	read	960.
+0960*	000470	LDY 10	11111100	opcde	1.00
+0961	000471	10 operand fetched	01101100	oprnd	960.
+0962	000610	0D data read	01110100	read	1.00
+0963	000611	00 data read	01110100	read	960.
+0964*	000472	LDA 10	01111100	opcde	1.12
+0965	000473	10 operand fetched	01101100	oprnd	960.
+0966	000610	0D data read	01110100	read	1.00
+0967*	000474	LDX 10	01111100	opcde	960.
+0968	000475	10 operand fetched	01101100	oprnd	1.00

State Listing

Label	ADDR	Apple 6501b InvAsm 1.0	STAT	EXTRA	T
Desc	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0960	000C10	00 data read	01110100	read	950.
+0970	000511	00 data read	01110100	read	1.00
+0971*	000476	LDA [10]	11111100	opcde	950.
+0972	000477	10 operand fetched	11101100	oprnd	1.00
+0973	000C10	00 data read	11110100	read	950.
+0974	000511	00 data read	11110100	read	950.
+0975	000512	20 data read	11110100	read	1.00
+0976	20000D	00 data read	11110100	read	950.
+0977*	000478	TAY	11111100	opcde	1.00
+0978	000479	A0 false read	11100100	fread	950.
+0979*	000479	LDA #77	11111100	opcde	1.00
+0980	00047A	77 operand fetched	11101100	oprnd	950.
+0981*	00047B	TAX	11111100	opcde	1.00
+0982	00047C	AB false read	11100100	fread	950.
+0983*	00047C	PLR	11111100	opcde	950.
+0984	00047D	AC false read	01100100	fread	1.00
+0985	00047D	AC false read	01100100	fread	950.
+0986	0007F8	EE data read	01110100	read	1.00
+0987*	00047D	LDY FFFF	01111100	opcde	950.
+0988	00047E	FF operand fetched	01101100	oprnd	1.00
+0989	00047F	FF operand fetched	01101100	oprnd	950.
+0990	EEFFFF	00 data read	01110100	read	1.00
+0991	EF0000	00 data read	01110100	read	950.
+0992*	000480	LDA FFFF	01111100	opcde	950.
+0993	000481	FF operand fetched	01101100	oprnd	1.00
+0994	000482	FF operand fetched	11101100	oprnd	950.
+0995	EEFFFF	00 data read	11110100	read	1.00
+0996*	000483	LDX FFFF	11111100	opcde	950.
+0997	000484	FF operand fetched	11101100	oprnd	1.00
+0998	000485	FF operand fetched	11101100	oprnd	950.
+0999	EEFFFF	00 data read	11110100	read	1.00
+1000	EF0000	00 data read	11110100	read	950.
+1001*	000486	LDA FFFFFF	11111100	opcde	1.00
+1002	000487	FF operand fetched	11101100	oprnd	950.
+1003	000488	FF operand fetched	11101100	oprnd	950.
+1004	000489	FF operand fetched	11101100	oprnd	1.00
+1005	FFFFF	00 data read	11110100	read	950.
+1006*	00048A	LDA (10),Y	11111100	opcde	1.00
+1007	00048B	10 operand fetched	01101100	oprnd	950.
+1008	000510	00 data read	01110100	read	1.00
+1009	000511	00 data read	01110100	read	950.
+1010	EE0511	00 false read	01100100	fread	1.00
+1011	EE000D	00 data read	01110100	read	950.
+1012*	00048C	LDA (10)	01111100	opcde	950.
+1013	00048D	10 operand fetched	01101100	oprnd	1.00
+1014	000510	00 data read	01110100	read	950.
+1015	000511	00 data read	01110100	read	1.00
+1016	EE000D	00 data read	01110100	read	950.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0000*	00048F	LDA (10,S),Y	11111100	opcode	0.
+0001	00048F	10 operand fetched	11101100	oprnd	950.
+0002	00048F	10 false read	11100100	fread	950.
+0003	000808	08 data read	11110100	read	1.00
+0004	000809	8F data read	11110100	read	950.
+0005	000809	8F false read	11100100	fread	1.00
+0006	EE8F08	FF data read	11110100	read	950.
+0007*	000490	LDY 10,X	11111100	opcode	1.00
+0008	000491	10 operand fetched	11101100	oprnd	950.
+0009	000491	10 false read	11100100	fread	1.00
+0010	000610	0D data read	11110100	read	950.
+0011	000611	00 data read	11110100	read	1.00
+0012*	000492	LDA 10,X	11111100	opcode	950.
+0013	000493	10 operand fetched	01101100	oprnd	350.
+0014	000493	10 false read	01100100	fread	1.00
+0015	000610	0D data read	01110100	read	950.
+0016*	000494	LDX 10,Y	01111100	opcode	1.00
+0017	000495	10 operand fetched	01101100	oprnd	350.
+0018	000495	10 false read	01100100	fread	1.00
+0019	00061D	00 data read	01110100	read	950.
+0020	00061E	00 data read	01110100	read	1.00
+0021*	000496	LDA [10],Y	01111100	opcode	950.
+0022	000497	10 operand fetched	01101100	oprnd	950.
+0023	000610	0D data read	11110100	read	1.00
+0024	000611	00 data read	11110100	read	950.
+0025	000612	20 data read	11110100	read	1.00
+0026	20001A	01 data read	11110100	read	950.
+0027*	000498	CLV	11111100	opcode	1.00
+0028	000499	B9 false read	11100100	fread	950.
+0029*	000499	LDA FFFF,Y	11111100	opcode	1.00
+0030	00049A	FF operand fetched	11101100	oprnd	950.
+0031	00049B	FF operand fetched	11101100	oprnd	1.12
+0032	EE049B	FF false read	11100100	fread	950.
+0033	EF000C	03 data read	11110100	read	1.00
+0034*	00049C	TYX	11111100	opcode	950.
+0035	00049D	BC false read	11100100	fread	1.00
+0036*	00049D	LDY FFFF,X	01111100	opcode	950.
+0037	00049E	FF operand fetched	01101100	oprnd	1.00
+0038	00049F	FF operand fetched	01101100	oprnd	950.
+0039	EE049F	FF false read	01100100	fread	350.
+0040	EF000C	03 data read	01110100	read	1.00
+0041	EF000D	0D data read	01110100	read	950.
+0042*	0004A0	LDA FFFF,X	01111100	opcode	1.00
+0043	0004A1	FF operand fetched	01101100	oprnd	950.
+0044	0004A2	FF operand fetched	01101100	oprnd	1.00
+0045	EE04A2	FF false read	01100100	fread	950.
+0046	EF000C	03 data read	11110100	read	1.00
+0047*	0004A3	LDX FFFF,Y	11111100	opcode	950.
+0048	0004A4	FF operand fetched	11101100	oprnd	1.00
+0049	0004A5	FF operand fetched	11101100	oprnd	950.
+0050	EE04A5	FF false read	11100100	fread	950.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0051	EF0D02	FF data read	11110100	read	1.00
+0052	EF0D03	FF data read	11110100	read	950.
+0053*	0004A6	LDA FFFFFFF,X	11111100	opcde	1.00
+0054	0004A7	FF operand fetched	11101100	oprnd	950.
+0055	0004A8	FF operand fetched	11101100	oprnd	1.00
+0056	0004A9	FF operand fetched	11101100	oprnd	950.
+0057	00FFFE	1A data read	11110100	read	1.00
+0058*	0004AA	CPY #1177	11111100	opcde	950.
+0059	0004AB	77 operand fetched	01101100	oprnd	950.
+0060	0004AC	11 operand fetched	01101100	oprnd	1.00
+0061*	0004AD	CMP (10,X)	01111100	opcde	950.
+0062	0004AE	10 operand fetched	01101100	oprnd	1.00
+0063	0004AF	10 false read	01100100	fread	950.
+0064	00060F	20 data read	01110100	read	1.00
+0065	000610	0D data read	01110100	read	950.
+0066	EE0D20	FD data read	01110100	read	950.
+0067*	0004AF	CMP 10,S	01111100	opcde	1.00
+0068	0004B0	10 operand fetched	01101100	oprnd	950.
+0069	0004B0	10 false read	11100100	fread	1.00
+0070	000808	0B data read	11110100	read	950.
+0071*	0004B1	CPY 10	11111100	opcde	1.00
+0072	0004B2	10 operand fetched	11101100	oprnd	950.
+0073	000610	0D data read	11110100	read	1.00
+0074	000611	00 data read	11110100	read	950.
+0075*	0004B3	CMP 10	11111100	opcde	1.00
+0076	0004B4	10 operand fetched	11101100	oprnd	950.
+0077	000610	0D data read	11110100	read	950.
+0078*	0004B5	DEC 10	11111100	opcde	1.00
+0079	0004B6	10 operand fetched	11101100	oprnd	950.
+0080	000610	0D data read	11110100	read	1.00
+0081	000610	0D false read	11100100	fread	950.
+0082	000610	0C data written	00110100	write	1.00
+0083*	0004B7	CMP [10]	01111100	opcde	950.
+0084	0004B8	10 operand fetched	01101100	oprnd	1.00
+0085	000610	0C data read	01110100	read	950.
+0086	000611	00 data read	01110100	read	950.
+0087	000612	20 data read	01110100	read	1.00
+0088	20000C	03 data read	01110100	read	950.
+0089*	0004B9	INY	01111100	opcde	1.00
+0090	0004BA	C9 false read	01100100	fread	950.
+0091*	0004BA	CMP #77	01111100	opcde	1.00
+0092	0004BB	77 operand fetched	11101100	oprnd	950.
+0093*	0004BC	DEX	11111100	opcde	1.00
+0094	0004BD	58 false read	11100100	fread	950.
+0095*	0004BD	CLI	11111100	opcde	950.
+0096	0004BE	CB false read	11100100	fread	1.12
+0097*	0004DE	WAI	11111100	opcde	1.00
+0098	0004BF	78 false read	11100100	fread	950.
+0099	7804BF	78 false read	11100101	fread	1.00
+0100	7804BF	78 false read	11100101	fread	950.
+0101	7804BF	78 false read	11100101	fread	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[PIN]	[USR]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0102	7804BF	78 false read	11100101	fread	960.
+0103	7804BF	78 false read	11100101	fread	960.
+0104	7804BF	78 false read	11100101	fread	1.00
+0105	7804BF	78 false read	01100101	fread	960.
+0106	7804BF	78 false read	01100101	fread	1.00
+0107	0004BF	78 false read	01100100	fread	960.
+0108*	0004BF	SCI	01111100	opcde	1.00
+0109	0004BF	78 false read	01100100	fread	960.
+0110	0007F8	00 data written	00110100	write	1.00
+0111	0007F7	04 data written	00110100	write	960.
+0112	0007F6	BF data written	00110100	write	960.
+0113	0007F5	A0 data written	00110100	write	1.00
+0114	00FFEE	74 irq native vpull	01010100	vpull	960.
+0115	00FFEF	02 high byte of vpull	11010100	vpull	1.00
+0116*	000274	RTI	11111100	opcde	960.
+0117	000275	A0 false read	11100100	fread	1.00
+0118	000275	A0 false read	11100100	fread	960.
+0119	0007F5	A0 data read	11110100	read	1.00
+0120	0007F6	BF data read	11110100	read	960.
+0121	0007F7	04 data read	11110100	read	1.00
+0122	0007F8	00 data read	11110100	read	960.
+0123*	0004BF	SEI	11111100	opcde	960.
+0124	0004C0	CC false read	11100100	fread	1.00
+0125*	0004C0	CPY FFFF	11111100	opcde	960.
+0126	0004C1	FF operand fetched	11101100	oprnd	1.00
+0127	0004C2	FF operand fetched	11101100	oprnd	960.
+0128	EEFFFF	00 data read	01110100	read	1.00
+0129	EF0000	00 data read	01110100	read	960.
+0130*	0004C3	CMP FFFF	01111100	opcde	960.
+0131	0004C4	FF operand fetched	01101100	oprnd	1.00
+0132	0004C5	FF operand fetched	01101100	oprnd	960.
+0133	EEFFFF	00 data read	01110100	read	1.00
+0134*	0004C6	DEC FFFF	01111100	opcde	960.
+0135	0004C7	FF operand fetched	01101100	oprnd	1.00
+0136	0004C8	FF operand fetched	01101100	oprnd	960.
+0137	EEFFFF	00 data read	01110100	read	1.00
+0138	EEFFFF	00 false read	11100100	fread	960.
+0139	EEFFFF	FF data written	10110100	write	1.00
+0140*	0004C9	CMP FFFFFF	11111100	opcde	960.
+0141	0004CA	FF operand fetched	11101100	oprnd	960.
+0142	0004CB	FF operand fetched	11101100	oprnd	1.00
+0143	0004CC	FF operand fetched	11101100	oprnd	960.
+0144	FFFFFF	FF data read	11110100	read	1.00
+0145*	0004CD	CMP (10),Y	11111100	opcde	960.
+0146	0004CE	10 operand fetched	11101100	oprnd	1.00
+0147	000610	0C data read	11110100	read	960.
+0148	000611	00 data read	11110100	read	1.00
+0149	EE0611	00 false read	11100100	fread	960.
+0150	EE0D10	10 data read	11110100	read	960.
+0151*	0004CF	CMP (10)	01111100	opcde	1.00
+0152	0004D0	10 operand fetched	01101100	oprnd	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Desc	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0153	000610	0C data read	01110100	read	1.00
+0154	000611	00 data read	01110100	read	950.
+0155	CE000C	03 data read	01110100	read	1.00
+0156*	0004D1	CMP (10,S),Y	01111100	opcode	950.
+0157	0004D2	10 operand fetched	01101100	oprnd	1.00
+0158	0004D2	10 false read	01100100	fread	950.
+0159	000808	08 data read	01110100	read	950.
+0160	000809	8F data read	01110100	read	1.00
+0161	000809	8F false read	11100100	fread	1.12
+0162	EE9C0F	FF data read	11110100	read	950.
+0163*	0004D3	PEI 10	11111100	opcode	1.00
+0164	0004D4	10 operand fetched	11101100	oprnd	950.
+0165	000610	0C data read	11110100	read	1.00
+0166	000611	00 data read	11110100	read	950.
+0167	0007F8	00 data written	10110100	write	950.
+0168	0007F7	0C data written	10110100	write	1.00
+0169*	0004D5	CMP 10,X	11111100	opcode	950.
+0170	0004D6	10 operand fetched	11101100	oprnd	1.00
+0171	0004D6	10 false read	11100100	fread	950.
+0172	00060E	78 data read	11110100	read	1.00
+0173*	0004D7	DEC 10,X	11111100	opcode	950.
+0174	0004D8	10 operand fetched	01101100	oprnd	1.00
+0175	0004D8	10 false read	01100100	fread	950.
+0176	00060E	78 data read	01110100	read	1.00
+0177	00060E	78 false read	01100100	fread	950.
+0178	00060E	77 data written	00110100	write	950.
+0179*	0004D9	CMP [10],Y	01111100	opcode	1.00
+0180	0004DA	10 operand fetched	01101100	oprnd	950.
+0181	000610	0C data read	01110100	read	1.00
+0182	000611	00 data read	01110100	read	950.
+0183	000612	20 data read	01110100	read	1.00
+0184	200D10	10 data read	11110100	read	950.
+0185*	0004DB	CMP FFFF,Y	11111100	opcode	1.00
+0186	0004DC	FF operand fetched	11101100	oprnd	950.
+0187	0004DD	FF operand fetched	11101100	oprnd	950.
+0188	EE04DD	FF false read	11100100	fread	1.00
+0189	EF0D03	FF data read	11110100	read	950.
+0190*	0004DE	PHX	11111100	opcode	1.00
+0191	0004DF	DD false read	11100100	fread	950.
+0192	0007F6	FF data written	10110100	write	1.00
+0193	0007F5	FE data written	10110100	write	950.
+0194*	0004DF	CMP FFFF,X	11111100	opcode	950.
+0195	0004E0	FF operand fetched	11101100	oprnd	1.00
+0196	0004E1	FF operand fetched	11101100	oprnd	950.
+0197	EE04E1	FF false read	01100100	fread	1.00
+0198	EFFFD0	0D data read	01110100	read	950.
+0199*	0004E2	DEX	01111100	opcode	1.00
+0200	0004E3	DE false read	01100100	fread	950.
+0201*	0004E3	DEC FFFF,X	01111100	opcode	1.00
+0202	0004E4	FF operand fetched	01101100	oprnd	950.
+0203	0004E5	FF operand fetched	01101100	oprnd	1.00

State Listing

Label	ADDR	Apple 65016 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USF]	[Role]
[MarL]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0204	EF04C5	FF false read	01100100	fread	950.
+0205	FFFFFFC	FF data read	01110100	read	950.
+0206	FFFFFFC	FF false read	01100100	fread	1.00
+0207	FFFFFFC	FE data written	10110100	write	950.
+0208*	0004C6	CMP FFFFFI,X	11111100	opcode	1.00
+0209	0004E7	FF operand fetched	11101100	oprnd	950.
+0210	0004E8	FF operand fetched	11101100	oprnd	1.00
+0211	0004E9	FF operand fetched	11101100	oprnd	950.
+0212	00FFFC	FE data read	11110100	read	1.00
+0213*	0004EA	CPX #1177	11111100	opcode	950.
+0214	0004EB	77 operand fetched	11101100	oprnd	950.
+0215	0004EC	11 operand fetched	11101100	oprnd	1.00
+0216*	0004ED	SBC (10,X)	11111100	opcode	950.
+0217	0004EE	10 operand fetched	11101100	oprnd	1.00
+0218	0004EE	10 false read	11100100	fread	950.
+0219	000500	2C data read	11110100	read	1.00
+0220	00060E	77 data read	01110100	read	950.
+0221	EE772C	EE data read	01110100	read	1.00
+0222*	0004CF	SBC 10,S	01111100	opcode	950.
+0223	0004F0	10 operand fetched	01101100	oprnd	950.
+0224	0004F0	10 false read	01100100	fread	1.00
+0225	000804	F2 data read	01110100	read	950.
+0226*	0004F1	CPX 10	01111100	opcode	1.12
+0227	0004F2	10 operand fetched	01101100	oprnd	1.00
+0228	000610	0C data read	01110100	read	950.
+0229	000611	00 data read	01110100	read	1.00
+0230*	0004F3	SBC 10	11111100	opcode	950.
+0231	0004F4	10 operand fetched	11101100	oprnd	950.
+0232	000610	0C data read	11110100	read	1.00
+0233*	0004F5	INC 10	11111100	opcode	950.
+0234	0004F6	10 operand fetched	11101100	oprnd	1.00
+0235	000610	0C data read	11110100	read	950.
+0236	000610	0C false read	11100100	fread	1.00
+0237	000610	0D data written	10110100	write	950.
+0238*	0004F7	SBC [10]	11111100	opcode	1.00
+0239	0004F8	10 operand fetched	11101100	oprnd	950.
+0240	000610	0D data read	11110100	read	950.
+0241	000611	00 data read	11110100	read	1.00
+0242	000612	20 data read	11110100	read	950.
+0243	20000D	0D data read	01110100	read	1.00
+0244*	0004F9	INX	01111100	opcode	950.
+0245	0004FA	E3 false read	01100100	fread	1.00
+0246*	0004FA	SBC #77	01111100	opcode	950.
+0247	0004FB	77 operand fetched	01101100	oprnd	1.00
+0248*	0004FC	NOP	01111100	opcode	950.
+0249	0004FD	EB false read	01100100	fread	1.00
+0250*	0004FD	XBA	01111100	opcode	950.
+0251	0004FE	EC false read	01100100	fread	950.
+0252	0004FE	EC false read	01100100	fread	1.00
+0253*	0004FE	CPX BSFF	11111100	opcode	950.
+0254	0004FF	FF operand fetched	11101100	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base	> [H[X]	[ASM]	[BIN]	[USR]	[Relo
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0255	000500	B5 operand fetched	11101100	oprnd	960.
+0256	EEB5FF	FF data read	11110100	read	1.00
+0257	EFB000	FF data read	11110100	read	960.
+0258*	000501	SBC FFFF	11111100	opcode	960.
+0259	000502	FF operand fetched	11101100	oprnd	1.00
+0260	000503	FF operand fetched	11101100	oprnd	960.
+0261	EEF1FF	FF data read	11110100	read	1.00
+0262*	000504	INC FFFF	11111100	opcode	960.
+0263	000505	FF operand fetched	11101100	oprnd	1.00
+0264	000506	FF operand fetched	11101100	oprnd	960.
+0265	EEF1FF	FF data read	11110100	read	1.00
+0266	EEFFFF	FF false read	01100100	fread	960.
+0267	EEFFFF	00 data written	00110100	write	960.
+0268*	000507	SBC FFFFFF	01111100	opcode	1.00
+0269	000508	FF operand fetched	01101100	oprnd	960.
+0270	000509	FF operand fetched	01101100	oprnd	1.00
+0271	00050A	FF operand fetched	01101100	oprnd	960.
+0272	FFFFFF	00 data read	01110100	read	1.00
+0273*	00050B	SDC (10),Y	01111100	opcode	960.
+0274	00050C	10 operand fetched	01101100	oprnd	1.00
+0275	000510	00 data read	01110100	read	960.
+0276	000511	00 data read	11110100	read	960.
+0277	EE0011	00 false read	11100100	fread	1.00
+0278	EE0D11	F4 data read	11110100	read	960.
+0279*	00050D	SDC (10)	11111100	opcode	1.00
+0280	00050E	10 operand fetched	11101100	oprnd	960.
+0281	000510	00 data read	11110100	read	1.00
+0282	000511	00 data read	11110100	read	960.
+0283	EE000D	00 data read	11110100	read	1.00
+0284*	00050F	SBC (10,S),Y	11111100	opcode	960.
+0285	000510	10 operand fetched	11101100	oprnd	1.00
+0286	000510	10 false read	11100100	fread	960.
+0287	000804	F2 data read	11110100	read	960.
+0288	000805	09 data read	11110100	read	1.00
+0289	000805	09 false read	01100100	fread	960.
+0290	EE16F6	6D data read	01110100	read	1.00
+0291*	000511	PEA 1177	01111100	opcode	1.12
+0292	000512	77 operand fetched	01101100	oprnd	960.
+0293	000513	11 operand fetched	01101100	oprnd	1.00
+0294	0007F4	11 data written	00110100	write	960.
+0295	0007F3	77 data written	00110100	write	960.
+0296*	000514	SBC 10,X	01111100	opcode	1.00
+0297	000515	10 operand fetched	01101100	oprnd	960.
+0298	000515	10 false read	01100100	fread	1.00
+0299	00060E	77 data read	11110100	read	960.
+0300*	000516	INC 10,X	11111100	opcode	1.00
+0301	000517	10 operand fetched	11101100	oprnd	960.
+0302	000517	10 false read	11100100	fread	1.00
+0303	00060E	77 data read	11110100	read	960.
+0304	00060E	77 false read	11100100	fread	1.00
+0305	000E0E	78 data written	10110100	write	960.

State Listing

Label	ADDR	Apple 65016 InvAsm 1.0	STAT	EXTRA	Rela
Base	[HEX]	[ASM]	[BIN]	[USR]	
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0306*	000518	SDC [10],Y	11111100	opcode	960.
+0307	000519	10 operand fetched	11101100	oprnd	1.00
+0308	00051A	00 data read	11110100	read	960.
+0309	00051B	00 data read	11110100	read	1.00
+0310	00051C	20 data read	11110100	read	960.
+0311	200D11	F4 data read	11110100	read	1.00
+0312*	00051A	SCD	01111100	opcode	960.
+0313	00051B	D8 false read	01100100	fread	1.00
+0314*	00051B	CLD	01111100	opcode	960.
+0315	00051C	F9 false read	01100100	fread	960.
+0316*	00051C	SDC FFFF,Y	01111100	opcode	1.00
+0317	00051D	FF operand fetched	01101100	oprnd	960.
+0318	00051E	FF operand fetched	01101100	oprnd	1.00
+0319	EE051E	FF false read	01100100	fread	960.
+0320	EF0D03	FF data read	01110100	read	1.00
+0321*	00051F	PLX	01111100	opcode	960.
+0322	000520	FD false read	11100100	fread	960.
+0323	000520	FD false read	11100100	fread	1.00
+0324	0007F3	77 data read	11110100	read	960.
+0325	0007F4	11 data read	11110100	read	1.00
+0326*	000520	SDC FFFF,X	11111100	opcode	960.
+0327	000521	FF operand fetched	11101100	oprnd	1.00
+0328	000522	FF operand fetched	11101100	oprnd	960.
+0329	EE0522	FF false read	11100100	fread	1.00
+0330	EF1176	11 data read	11110100	read	960.
+0331*	000523	INC FFFF,X	11111100	opcode	1.00
+0332	000524	FF operand fetched	11101100	oprnd	960.
+0333	000525	FF operand fetched	11101100	oprnd	960.
+0334	EE0525	FF false read	11100100	fread	1.00
+0335	EF1176	11 data read	01110100	read	960.
+0336	EF1176	11 false read	01100100	fread	1.00
+0337	EF1176	12 data written	00110100	write	960.
+0338*	000526	SBC FFFFFF,X	01111100	opcode	1.00
+0339	000527	FF operand fetched	01101100	oprnd	960.
+0340	000528	FF operand fetched	01101100	oprnd	1.00
+0341	000529	FF operand fetched	01101100	oprnd	960.
+0342	001176	12 data read	01110100	read	960.
+0343*	00052A	STP	01111100	opcode	1.00
+0344	00052B	20 false read	01100100	fread	960.
+0345	20052B	20 false read	11100101	fread	1.00
+0346	20052B	20 false read	11100101	fread	960.
+0347	20052B	20 false read	11100101	fread	1.00
+0348	20052B	20 false read	11100101	fread	960.
+0349	20052B	20 false read	11100101	fread	1.00
+0350	20052B	20 false read	11100101	fread	960.
+0351	20052B	20 false read	11100101	fread	960.
+0352	20052B	20 false read	11100101	fread	1.00
+0353	20052B	20 false read	11100101	fread	960.
+0354	20052B	20 false read	11100101	fread	1.00
+0355	20052B	20 false read	11100101	fread	960.
+0356	20052B	20 false read	11100101	fread	1.12

65SC816

**NON-branching
opcodes**

e=0

m=1

x=1

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base >	[HEX]	[ASM]	[BIN]	[USP]	[Rela]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	[XXXX]	
+0000*	000300	CLC	01111111	opcde	0.
+0001	000301	78 false read	01100111	fread	960.
+0002*	000301	SEI	01111111	opcde	1.00
+0003	000302	D8 false read	01100111	fread	960.
+0004*	000302	CLD	01111111	opcde	960.
+0005	000303	FE false read	11100111	fread	1.00
+0006*	000303	XCE	11111111	opcde	960.
+0007	000304	C2 false read	11100111	fread	1.00
+0008*	000304	REP #30	11111101	opcde	960.
+0009	000305	30 operand fetched	11101101	oprnd	1.00
+0010	000305	30 false read	11100101	fread	960.
+0011*	000306	LDA #0600	11111001	opcde	1.00
+0012	000307	00 operand fetched	11101000	oprnd	960.
+0013	000308	06 operand fetched	11101000	oprnd	1.00
+0014*	000309	TCD	11111000	opcde	960.
+0015	00030A	A9 false read	11100000	fread	960.
+0016*	00030A	LDA #07FF	11111000	opcde	1.00
+0017	00030B	FF operand fetched	11101000	oprnd	960.
+0018	00030C	07 operand fetched	01101000	oprnd	1.00
+0019*	00030D	TCS	01111000	opcde	960.
+0020	00030E	E2 false read	01100000	fread	1.00
+0021*	00030E	SEP #30	01111000	opcde	960.
+0022	00030F	30 operand fetched	01101000	oprnd	1.12
+0023	00030F	30 false read	01100000	fread	1.00
+0024*	000310	BRK 10	01111100	opcde	960.
+0025	000311	10 operand fetched	01101101	oprnd	960.
+0026	0007FF	00 data written	00110101	write	1.00
+0027	0007FE	03 data written	00110101	write	960.
+0028	0007FD	12 data written	10110101	write	1.00
+0029	0007FC	35 data written	10110101	write	960.
+0030	00FFE6	20 break native vpull	11010101	vpull	1.00
+0031	00FFE7	02 high byte of vpull	11010101	vpull	960.
+0032*	000220	RTI	11111101	opcde	1.00
+0033	000221	B3 false read	11100101	fread	960.
+0034	000221	B3 false read	11100101	fread	960.
+0035	0007FC	35 data read	11110101	read	1.00
+0036	0007FD	12 data read	11110101	read	960.
+0037	0007FE	03 data read	11110101	read	1.00
+0038	0007FF	00 data read	11110101	read	960.
+0039*	000312	ORA (10,X)	11111101	opcde	1.00
+0040	000313	10 operand fetched	11101101	oprnd	960.
+0041	000313	10 false read	01100101	fread	960.
+0042	000610	53 data read	01110101	read	1.00
+0043	000611	40 data read	01110101	read	960.
+0044	004053	00 data read	01110101	read	1.00
+0045*	000314	COP 11	01111101	opcde	960.
+0046	000315	11 operand fetched	01101101	oprnd	1.00
+0047	0007FF	00 data written	00110101	write	960.
+0048	0007FE	03 data written	00110101	write	1.00
+0049	0007FD	16 data written	00110101	write	960.
+0050	0007FC	B5 data written	00110101	write	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0051	00FFE4	04 cop native vpull	11010101	vpull	1.00
+0052	00FFE5	02 high byte of vpull	11010101	vpull	960.
+0053*	000204	RTI	11111101	opcde	1.00
+0054	000205	A0 false read	11100101	fread	960.
+0055	000205	A0 false read	11100101	fread	1.00
+0056	0007FC	B5 data read	11110101	read	960.
+0057	0007FD	16 data read	11110101	read	1.00
+0058	0007FE	03 data read	11110101	read	960.
+0059	0007FF	00 data read	11110101	read	1.00
+0060*	000316	ORA 10,S	11111101	opcde	960.
+0061	000317	10 operand fetched	11101101	oprnd	960.
+0062	000317	10 false read	11100101	fread	1.00
+0063	00080F	0F data read	11110101	read	960.
+0064*	000318	TSB 10	01111101	opcde	1.00
+0065	000319	10 operand fetched	01101101	oprnd	960.
+0066	000610	53 data read	01110101	read	1.00
+0067	000610	53 false read	01100101	fread	960.
+0068	000610	FF data written	00110101	write	960.
+0069*	00031A	ORA 10	01111101	opcde	1.00
+0070	00031B	10 operand fetched	01101101	oprnd	960.
+0071	000610	FF data read	01110101	read	1.00
+0072*	00031C	ASL 10	01111101	opcde	960.
+0073	00031D	10 operand fetched	01101101	oprnd	1.00
+0074	000610	FF data read	11110101	read	960.
+0075	000610	FF false read	11100101	fread	1.00
+0076	000610	FE data written	10110101	write	960.
+0077*	00031E	ORA [10]	11111101	opcde	1.00
+0078	00031F	10 operand fetched	11101101	oprnd	960.
+0079	000610	FE data read	11110101	read	960.
+0080	000611	4D data read	11110101	read	1.00
+0081	000612	2E data read	11110101	read	960.
+0082	2E4DFE	2E data read	11110101	read	1.00
+0083*	000320	PHP	11111101	opcde	960.
+0084	000321	09 false read	11100101	fread	1.00
+0085	0007FF	B5 data written	10110101	write	960.
+0086*	000321	ORA #77	11111101	opcde	1.00
+0087	000322	77 operand fetched	01101101	oprnd	1.12
+0088*	000323	ASL Accumulator	01111101	opcde	960.
+0089	000324	0B false read	01100101	fread	960.
+0090*	000324	PHD	01111101	opcde	1.00
+0091	000325	0C false read	01100101	fread	960.
+0092	0007FE	06 data written	00110101	write	1.00
+0093	0007FD	00 data written	00110101	write	960.
+0094*	000325	TSB FFFF	01111101	opcde	1.00
+0095	000326	FF operand fetched	01101101	oprnd	960.
+0096	000327	FF operand fetched	01101101	oprnd	1.00
+0097	00FFFF	02 data read	11110101	read	960.
+0098	00FFFF	02 false read	11100101	fread	960.
+0099	00FFFF	FE data written	10110101	write	1.00
+0100*	000328	ORA FFFF	11111101	opcde	960.
+0101	000329	FF operand fetched	11101101	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<1 Ti
Base	[HEX]	[ASM]	[RIN]	[USR]	[Rela]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0102	00032A	FF operand fetched	11101101	oprnd	950.
+0103	00FFFF	02 data read	11110101	read	1.00
+0104*	00032B	ASL FFFF	11111101	opcde	950.
+0105	00032C	FF operand fetched	11101101	oprnd	950.
+0106	00032D	FF operand fetched	11101101	oprnd	1.00
+0107	00FFFF	02 data read	11110101	read	950.
+0108	00FFFF	02 false read	11100101	fread	1.00
+0109	00FFFF	04 data written	10110101	write	950.
+0110*	00032E	ORA FFFFFFFF	01111101	opcde	1.00
+0111	00032F	FF operand fetched	01101101	oprnd	950.
+0112	000330	FF operand fetched	01101101	oprnd	1.00
+0113	000331	FF operand fetched	01101101	oprnd	950.
+0114	FFFFFF	02 data read	01110101	read	1.00
+0115*	000332	ORA (10),Y	01111101	opcde	950.
+0116	000333	10 operand fetched	01101101	oprnd	950.
+0117	000610	FE data read	01110101	read	1.00
+0118	000611	4D data read	01110101	read	950.
+0119	000611	4D false read	01100101	fread	1.00
+0120	004E02	00 data read	11110101	read	950.
+0121*	000334	ORA (10)	11111101	opcde	1.00
+0122	000335	10 operand fetched	11101101	oprnd	950.
+0123	000610	FE data read	11110101	read	1.00
+0124	000611	4D data read	11110101	read	950.
+0125	004DFE	00 data read	11110101	read	950.
+0126*	000336	ORA (10,S),Y	11111101	opcde	1.00
+0127	000337	10 operand fetched	11101101	oprnd	950.
+0128	000337	10 false read	11100101	fread	1.00
+0129	00080C	F0 data read	11110101	read	950.
+0130	00080D	0C data read	11110101	read	1.00
+0131	00080D	0C false read	11100101	fread	950.
+0132	000CF4	10 data read	11110101	read	950.
+0133*	000338	TRB 10	01111101	opcde	1.00
+0134	000339	10 operand fetched	01101101	oprnd	950.
+0135	000610	FE data read	01110101	read	1.00
+0136	000610	FE false read	01100101	fread	950.
+0137	000610	00 data written	00110101	write	1.00
+0138*	00033A	ORA 10,X	01111101	opcde	950.
+0139	00033B	10 operand fetched	01101101	oprnd	1.00
+0140	00033B	10 false read	01100101	fread	950.
+0141	000610	00 data read	01110101	read	1.00
+0142*	00033C	ASL 10,X	01111101	opcde	950.
+0143	00033D	10 operand fetched	11101101	oprnd	950.
+0144	00033D	10 false read	11100101	fread	1.00
+0145	000610	00 data read	11110101	read	950.
+0146	000610	00 false read	11100101	fread	1.00
+0147	000610	00 data written	10110101	write	950.
+0148*	00033E	ORA [10],Y	11111101	opcde	1.00
+0149	00033F	10 operand fetched	11101101	oprnd	950.
+0150	000610	00 data read	11110101	read	1.00
+0151	000611	4D data read	11110101	read	950.
+0152	000612	2E data read	11110101	read	1.12

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0153	2E4D04	2E data read	11110101	read	960.
+0154*	000340	ORA FFFF,Y	11111101	opcode	1.00
+0155	000341	FF operand fetched	11101101	oprnd	960.
+0156	000342	FF operand fetched	01101101	oprnd	1.00
+0157	000342	FF false read	01100101	fread	960.
+0158	010003	09 data read	01110101	read	1.00
+0159*	000343	INC Accumulator	01111101	opcode	960.
+0160	000344	10 false read	01100101	fread	1.00
+0161*	000344	TRB FFFF	01111101	opcode	960.
+0162	000345	FF operand fetched	01101101	oprnd	960.
+0163	000346	FF operand fetched	01101101	oprnd	1.00
+0164	00FFFF	02 data read	01110101	read	960.
+0165	00FFFF	02 false read	01100101	fread	1.00
+0166	00FFFF	02 data written	10110101	write	960.
+0167*	000347	ORA FFFF,X	11111101	opcode	1.00
+0168	000348	FF operand fetched	11101101	oprnd	960.
+0169	000349	FF operand fetched	11101101	oprnd	960.
+0170	00FFFF	02 data read	11110101	read	1.00
+0171*	00034A	ASL FFFF,X	11111101	opcode	960.
+0172	00034B	FF operand fetched	11101101	oprnd	1.00
+0173	00034C	FF operand fetched	11101101	oprnd	960.
+0174	00034C	FF false read	11100101	fread	1.00
+0175	00FFFF	02 data read	11110101	read	960.
+0176	00FFFF	02 false read	11100101	fread	1.00
+0177	00FFFF	04 data written	10110101	write	960.
+0178*	00034D	ORA FFFFFF,X	11111101	opcode	960.
+0179	00034E	FF operand fetched	01101101	oprnd	1.00
+0180	00034F	FF operand fetched	01101101	oprnd	960.
+0181	000350	FF operand fetched	01101101	oprnd	1.00
+0182	FFFFFF	02 data read	01110101	read	960.
+0183*	000351	AND (10,X)	01111101	opcode	1.00
+0184	000352	10 operand fetched	01101101	oprnd	960.
+0185	000352	10 false read	01100101	fread	1.00
+0186	000610	00 data read	01110101	read	960.
+0187	000611	40 data read	01110101	read	1.00
+0188	004D00	00 data read	01110101	read	960.
+0189*	000353	AND 10,S	11111101	opcode	960.
+0190	000354	10 operand fetched	11101101	oprnd	1.00
+0191	000354	10 false read	11100101	fread	960.
+0192	00080C	F0 data read	11110101	read	1.00
+0193*	000355	BIT 10	11111101	opcode	960.
+0194	000356	10 operand fetched	11101101	oprnd	1.00
+0195	000610	00 data read	11110101	read	960.
+0196*	000357	AND 10	11111101	opcode	960.
+0197	000358	10 operand fetched	11101101	oprnd	1.00
+0198	000610	00 data read	11110101	read	960.
+0199*	000359	ROL 10	11111101	opcode	1.00
+0200	00035A	10 operand fetched	11101101	oprnd	960.
+0201	000610	00 data read	11110101	read	1.00
+0202	000610	00 false read	01100101	fread	960.
+0203	000610	00 data written	00110101	write	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[BIN]	[USP]	[Rela]
[Merl]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0204*	00035B	AND [10]	01111101	opcde	960.
+0205	00035C	10 operand fetched	01101101	oprnd	1.00
+0206	000610	00 data read	01110101	read	960.
+0207	000611	40 data read	01110101	read	960.
+0208	000612	2E data read	01110101	read	1.00
+0209	2E4D00	2E data read	01110101	read	960.
+0210*	00035D	SEP #04	01111101	opcde	1.00
+0211	00035E	04 operand fetched	01101101	oprnd	960.
+0212	00035E	04 false read	11100101	fread	1.00
+0213*	00035F	PHP	11111101	opcde	960.
+0214	000360	28 false read	11100101	fread	1.00
+0215	0007FC	36 data written	10110101	write	960.
+0216*	000360	PLP	11111101	opcde	960.
+0217	000361	29 false read	11100101	fread	1.12
+0218	000361	29 false read	11100101	fread	1.00
+0219	0007FC	36 data read	11110101	read	960.
+0220*	000361	AND #77	11111101	opcde	1.00
+0221	000362	77 operand fetched	11101101	oprnd	960.
+0222*	000363	ROL Accumulator	11111101	opcde	1.00
+0223	000364	2B false read	11100101	fread	960.
+0224*	000364	PLD	11111101	opcde	1.00
+0225	000365	2C false read	01100101	fread	960.
+0226	000365	2C false read	01100101	fread	960.
+0227	0007FD	00 data read	01110101	read	1.00
+0228	0007FE	06 data read	01110101	read	960.
+0229*	000365	BIT FFFF	01111101	opcde	1.00
+0230	000366	FF operand fetched	01101101	oprnd	960.
+0231	000367	FF operand fetched	01101101	oprnd	1.00
+0232	00FFFF	02 data read	01110101	read	960.
+0233*	000368	AND FFFF	01111101	opcde	960.
+0234	000369	FF operand fetched	01101101	oprnd	1.00
+0235	00036A	FF operand fetched	11101101	oprnd	960.
+0236	00FFFF	02 data read	11110101	read	1.00
+0237*	00036B	ROL FFFF	11111101	opcde	960.
+0238	00036C	FF operand fetched	11101101	oprnd	1.00
+0239	00036D	FF operand fetched	11101101	oprnd	960.
+0240	00FFFF	02 data read	11110101	read	1.00
+0241	00FFFF	02 false read	11100101	fread	960.
+0242	00FFFF	04 data written	10110101	write	1.00
+0243*	00036E	AND FFFFFFFF	11111101	opcde	960.
+0244	00036F	FF operand fetched	11101101	oprnd	960.
+0245	000370	FF operand fetched	11101101	oprnd	1.00
+0246	000371	FF operand fetched	11101101	oprnd	960.
+0247	FFFFFF	02 data read	11110101	read	1.00
+0248*	000372	AND (10),Y	01111101	opcde	960.
+0249	000373	10 operand fetched	01101101	oprnd	1.00
+0250	000610	00 data read	01110101	read	960.
+0251	000611	40 data read	01110101	read	1.00
+0252	004D04	00 data read	01110101	read	960.
+0253*	000374	AND (10)	01111101	opcde	960.
+0254	000375	10 operand fetched	01101101	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	
Base	[HEX]	[ASM]	[BIN]	[USP]	[Pele]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	[YYYY]	
+0255	000510	00 data read	01110101	read	950.
+0256	000511	4D data read	01110101	read	1.00
+0257	004D00	00 data read	01110101	read	950.
+0258*	000376	AND (10,5),Y	11111101	opcode	1.00
+0259	000377	10 operand fetched	11101101	oprnd	950.
+0260	000377	10 false read	11100101	fread	950.
+0261	00080E	F0 data read	11110101	read	1.00
+0262	00080F	0F data read	11110101	read	950.
+0263	00080F	0F false read	11100101	fread	1.00
+0264	000FF4	B5 data read	11110101	read	950.
+0265*	000378	BIT 10,X	11111101	opcode	1.00
+0266	000379	10 operand fetched	11101101	oprnd	950.
+0267	000379	10 false read	11100101	fread	1.00
+0268	000510	00 data read	11110101	read	950.
+0269*	00037A	AND 10,X	11111101	opcode	950.
+0270	00037B	10 operand fetched	11101101	oprnd	1.00
+0271	00037B	10 false read	01100101	fread	950.
+0272	000510	00 data read	01110101	read	1.00
+0273*	00037C	ROL 10,X	01111101	opcode	950.
+0274	00037D	10 operand fetched	01101101	oprnd	1.00
+0275	00037D	10 false read	01100101	fread	950.
+0276	000510	00 data read	01110101	read	1.00
+0277	000510	00 false read	01100101	fread	950.
+0278	000510	00 data written	00110101	write	1.00
+0279*	00037E	AND [10],Y	01111101	opcode	950.
+0280	00037F	10 operand fetched	01101101	oprnd	950.
+0281	000510	00 data read	11110101	read	1.00
+0282	000511	4D data read	11110101	read	1.12
+0283	000512	2E data read	11110101	read	950.
+0284	2E4D04	2E data read	11110101	read	1.00
+0285*	000380	SEC	11111101	opcode	950.
+0286	000381	39 false read	11100101	fread	1.00
+0287*	000381	AND FFFF,Y	11111101	opcode	950.
+0288	000382	FF operand fetched	11101101	oprnd	1.00
+0289	000383	FF operand fetched	11101101	oprnd	950.
+0290	000383	FF false read	11100101	fread	950.
+0291	010003	09 data read	11110101	read	1.00
+0292*	000384	DEC Accumulator	11111101	opcode	950.
+0293	000385	3B false read	11100101	fread	1.00
+0294*	000385	TSC	01111101	opcode	950.
+0295	000386	3C false read	01100101	fread	1.00
+0296*	000386	BIT FFFF,X	01111101	opcode	950.
+0297	000387	FF operand fetched	01101101	oprnd	950.
+0298	000388	FF operand fetched	01101101	oprnd	1.00
+0299	00FFFF	02 data read	01110101	read	950.
+0300*	000389	AND FFFF,X	01111101	opcode	1.00
+0301	00038A	FF operand fetched	01101101	oprnd	950.
+0302	00038B	FF operand fetched	01101101	oprnd	1.00
+0303	00FFFF	02 data read	01110101	read	950.
+0304*	00038C	ROL FFFF,X	11111101	opcode	1.00
+0305	00038D	FF operand fetched	11101101	oprnd	950.

State Listing

Label	ADDR	Apple 65816 Instr. 1.0	STAT	EXTRA	T
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0306	00038E	FF operand fetched	11101101	oprnd	960.
+0307	00038E	FF false read	11100101	fread	1.00
+0308	00FFFF	02 data read	11110101	read	960.
+0309	00FFFF	02 false read	11100101	fread	1.00
+0310	00FFFF	05 data written	10110101	write	960.
+0311*	00038F	AND FFFFFFF,X	11111101	opcde	1.00
+0312	000390	FF operand fetched	11101101	oprnd	960.
+0313	000391	FF operand fetched	11101101	oprnd	1.00
+0314	000392	FF operand fetched	11101101	oprnd	960.
+0315	FFFFFF	02 data read	11110101	read	1.00
+0316*	000393	EOR (10,X)	11111101	opcde	960.
+0317	000394	10 operand fetched	01101101	oprnd	960.
+0318	000394	10 false read	01100101	fread	1.00
+0319	000610	00 data read	01110101	read	960.
+0320	000611	40 data read	01110101	read	1.00
+0321	004D00	00 data read	01110101	read	960.
+0322*	000395	WDM 00	01111101	opcde	1.00
+0323	000396	00 operand fetched	01101101	oprnd	960.
+0324*	000397	EOR 10,S	01111101	opcde	960.
+0325	000398	10 operand fetched	01101101	oprnd	1.00
+0326	000398	10 false read	01100101	fread	960.
+0327	00080E	F0 data read	11110101	read	1.00
+0328*	000399	REP #30	11111101	opcde	960.
+0329	00039A	30 operand fetched	11101101	oprnd	1.00
+0330	00039A	30 false read	11100101	fread	960.
+0331*	00039B	LDA #000F	11111001	opcde	1.00
+0332	00039C	0F operand fetched	11101000	oprnd	960.
+0333	00039D	00 operand fetched	11101000	oprnd	960.
+0334*	00039E	LDX #0004	11111000	opcde	1.00
+0335	00039F	04 operand fetched	11101000	oprnd	960.
+0336	0003A0	00 operand fetched	11101000	oprnd	1.00
+0337*	0003A1	LDY #0004	11111000	opcde	960.
+0338	0003A2	04 operand fetched	11101000	oprnd	1.00
+0339	0003A3	00 operand fetched	11101000	oprnd	960.
+0340*	0003A4	SEP #30	01111000	opcde	1.00
+0341	0003A5	30 operand fetched	01101000	oprnd	960.
+0342	0003A5	30 false read	01100000	fread	1.00
+0343*	0003A6	MUP FFEE block move	01111100	opcde	960.
+0344	0003A7	EE operand fetched	01101101	oprnd	960.
+0345	0003A8	FF operand fetched	01101101	oprnd	1.00
+0346	FF0004	F2 data read	01110101	read	960.
+0347	EE0004	F2 data written	00110101	write	1.12
+0348	EE0004	F2 false read	01100101	fread	1.00
+0349	EE0004	F2 false read	01100101	fread	960.
+0350*	0003A6	MUP FFEE block move	11111101	opcde	1.00
+0351	0003A7	EE operand fetched	11101101	oprnd	960.
+0352	0003A8	FF operand fetched	11101101	oprnd	1.00
+0353	FF0003	09 data read	11110101	read	960.
+0354	EE0003	09 data written	10110101	write	960.
+0355	EE0003	09 false read	11100101	fread	1.00
+0356	EE0003	09 false read	11100101	fread	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rela]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0357*	0003A6	MVP FFEE block move	11111101	opcde	1.00
+0358	0003A7	EE operand fetched	11101101	oprnd	960.
+0359	0003A8	FF operand fetched	11101101	oprnd	1.00
+0360	FF0002	62 data read	11110101	read	960.
+0361	EE0002	62 data written	10110101	write	960.
+0362	EE0002	62 false read	11100101	fread	1.00
+0363	EE0002	62 false read	01100101	fread	960.
+0364*	0003A6	MVP FFEE block move	01111101	opcde	1.00
+0365	0003A7	EE operand fetched	01101101	oprnd	960.
+0366	0003A8	FF operand fetched	01101101	oprnd	1.00
+0367	FF0001	8E data read	01110101	read	960.
+0368	EE0001	8E data written	00110101	write	1.00
+0369	EE0001	8E false read	01100101	fread	960.
+0370	EE0001	8E false read	01100101	fread	1.00
+0371*	0003A6	MVP FFEE block move	01111101	opcde	960.
+0372	0003A7	EE operand fetched	01101101	oprnd	960.
+0373	0003A8	FF operand fetched	11101101	oprnd	1.00
+0374	FF0000	FA data read	11110101	read	960.
+0375	EE0000	FA data written	10110101	write	1.00
+0376	EE0000	FA false read	11100101	fread	960.
+0377	EE0000	FA false read	11100101	fread	1.00
+0378*	0003A6	MVP FFEE block move	11111101	opcde	960.
+0379	0003A7	EE operand fetched	11101101	oprnd	1.00
+0380	0003A8	FF operand fetched	11101101	oprnd	960.
+0381	FF00FF	F1 data read	11110101	read	960.
+0382	EE00FF	F1 data written	10110101	write	1.00
+0383	EE00FF	F1 false read	11100101	fread	960.
+0384	EE00FF	F1 false read	11100101	fread	1.00
+0385*	0003A6	MVP FFEE block move	11111101	opcde	960.
+0386	0003A7	EE operand fetched	01101101	oprnd	1.00
+0387	0003A8	FF operand fetched	01101101	oprnd	960.
+0388	FF00FE	0F data read	01110101	read	960.
+0389	EE00FE	0F data written	00110101	write	1.00
+0390	EE00FE	0F false read	01100101	fread	960.
+0391	EE00FE	0F false read	01100101	fread	1.00
+0392*	0003A6	MVP FFEE block move	01111101	opcde	960.
+0393	0003A7	EE operand fetched	01101101	oprnd	1.00
+0394	0003A8	FF operand fetched	01101101	oprnd	960.
+0395	FF00FD	F0 data read	01110101	read	1.00
+0396	EE00FD	F0 data written	10110101	write	960.
+0397	EE00FD	F0 false read	11100101	fread	960.
+0398	EE00FD	F0 false read	11100101	fread	1.00
+0399*	0003A6	MVP FFEE block move	11111101	opcde	960.
+0400	0003A7	EE operand fetched	11101101	oprnd	1.00
+0401	0003A8	FF operand fetched	11101101	oprnd	960.
+0402	FF00FC	0F data read	11110101	read	1.00
+0403	EE00FC	0F data written	10110101	write	960.
+0404	EE00FC	0F false read	11100101	fread	1.00
+0405	EE00FC	0F false read	11100101	fread	960.
+0406*	0003A6	MVP FFEE block move	11111101	opcde	1.00
+0407	0003A7	EE operand fetched	11101101	oprnd	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T;
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0408	0003A8	FF operand fetched	11101101	oprnd	960.
+0409	FF00FB	F0 data read	01110101	read	1.00
+0410	EE00FB	F0 data written	00110101	write	960.
+0411	EE00FB	F0 false read	01100101	fread	1.00
+0412	EE00FB	F0 false read	01100101	fread	1.12
+0413*	0003A6	MVP FFEE block move	01111101	opcde	960.
+0414	0003A7	EE operand fetched	01101101	oprnd	1.00
+0415	0003A6	FF operand fetched	01101101	oprnd	960.
+0416	FF00FA	0F data read	01110101	read	960.
+0417	EE00FA	0F data written	00110101	write	1.00
+0418	EE00FA	0F false read	01100101	fread	960.
+0419	EE00FA	0F false read	11100101	fread	1.00
+0420*	0003A6	MVP FFEE block move	11111101	opcde	960.
+0421	0003A7	EE operand fetched	11101101	oprnd	1.00
+0422	0003A8	FF operand fetched	11101101	oprnd	960.
+0423	FF00F9	F0 data read	11110101	read	1.00
+0424	EE00F9	F0 data written	10110101	write	960.
+0425	EE00F9	F0 false read	11100101	fread	960.
+0426	EE00F9	F0 false read	11100101	fread	1.00
+0427*	0003A6	MVP FFEE block move	11111101	opcde	960.
+0428	0003A7	EE operand fetched	11101101	oprnd	1.00
+0429	0003A8	FF operand fetched	11101101	oprnd	960.
+0430	FF00F8	0F data read	11110101	read	1.00
+0431	EE00F8	0F data written	10110101	write	960.
+0432	EE00F8	0F false read	01100101	fread	1.00
+0433	EE00F8	0F false read	01100101	fread	960.
+0434*	0003A6	MVP FFEE block move	01111101	opcde	960.
+0435	0003A7	EE operand fetched	01101101	oprnd	1.00
+0436	0003A8	FF operand fetched	01101101	oprnd	960.
+0437	FF00F7	90 data read	01110101	read	1.00
+0438	EE00F7	90 data written	00110101	write	960.
+0439	EE00F7	90 false read	01100101	fread	1.00
+0440	EE00F7	90 false read	01100101	fread	960.
+0441*	0003A6	MVP FFEE block move	01111101	opcde	1.00
+0442	0003A7	EE operand fetched	11101101	oprnd	960.
+0443	0003A8	FF operand fetched	11101101	oprnd	1.00
+0444	FF00F6	06 data read	11110101	read	960.
+0445	EE00F6	06 data written	10110101	write	960.
+0446	EE00F6	06 false read	11100101	fread	1.00
+0447	EE00F6	06 false read	11100101	fread	960.
+0448*	0003A6	MVP FFEE block move	11111101	opcde	1.00
+0449	0003A7	EE operand fetched	11101101	oprnd	960.
+0450	0003A8	FF operand fetched	11101101	oprnd	1.00
+0451	FF00F5	F0 data read	11110101	read	960.
+0452	EE00F5	F0 data written	10110101	write	960.
+0453	EE00F5	F0 false read	11100101	fread	1.00
+0454	EE00F5	F0 false read	11100101	fread	960.
+0455*	0003A9	EOR 10	01111101	opcde	1.00
+0456	0003AA	10 operand fetched	01101101	oprnd	960.
+0457	000610	00 data read	01110101	read	1.00
+0458*	0003AB	LSR 10	01111101	opcde	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[BIN]	[USR]	[Rela]
[Mar.]	XXXXXX	Instructions	XXXXXXXX	XXXXXX	
+0459	0003AC	10 operand fetched	01101101	oprnd	1.00
+0460	000610	00 data read	01110101	read	960.
+0461	000610	00 false read	01100101	fread	960.
+0462	000610	00 data written	00110101	write	1.00
+0463*	0003AD	EOR [10]	01111101	opcde	960.
+0464	0003AE	10 operand fetched	01101101	oprnd	1.00
+0465	000610	00 data read	11110101	read	960.
+0466	000611	4D data read	11110101	read	1.00
+0467	000612	2E data read	11110101	read	960.
+0468	2E4D00	2E data read	11110101	read	1.00
+0469*	0003AF	PHA	11111101	opcde	960.
+0470	0003B0	49 false read	11100101	fread	960.
+0471	0007FE	D1 data written	10110101	write	1.00
+0472*	0003B0	EOR #77	11111101	opcde	960.
+0473	0003B1	77 operand fetched	11101101	oprnd	1.00
+0474*	0003B2	LSR Accumulator	11111101	opcde	960.
+0475	0003B3	4B false read	11100101	fread	1.00
+0476*	0003B3	PHK	11111101	opcde	960.
+0477	0003B4	4D false read	11100101	fread	1.12
+0478	0007FD	00 data written	00110101	write	1.00
+0479*	0003B4	EOR FFFF	01111101	opcde	960.
+0480	0003B5	FF operand fetched	01101101	oprnd	1.00
+0481	0003B6	FF operand fetched	01101101	oprnd	960.
+0482	EEFFFF	02 data read	01110101	read	960.
+0483*	0003B7	LSR FFFF	01111101	opcde	1.00
+0484	0003B8	FF operand fetched	01101101	oprnd	960.
+0485	0003B9	FF operand fetched	01101101	oprnd	1.00
+0486	EEFFFF	02 data read	01110101	read	960.
+0487	EEFFFF	02 false read	01100101	fread	1.00
+0488	EEFFFF	01 data written	10110101	write	960.
+0489*	0003BA	EOR FFFFFFFF	11111101	opcde	960.
+0490	0003BB	FF operand fetched	11101101	oprnd	1.00
+0491	0003BC	FF operand fetched	11101101	oprnd	960.
+0492	0003BD	FF operand fetched	11101101	oprnd	1.00
+0493	FFFFFF	02 data read	11110101	read	960.
+0494*	0003BE	EOR (10),Y	11111101	opcde	1.00
+0495	0003BF	10 operand fetched	11101101	oprnd	960.
+0496	000610	00 data read	11110101	read	1.00
+0497	000611	4D data read	11110101	read	960.
+0498	EE4DF4	EE data read	11110101	read	1.00
+0499*	0003C0	EOR (10)	11111101	opcde	960.
+0500	0003C1	10 operand fetched	11101101	oprnd	960.
+0501	000610	00 data read	01110101	read	1.00
+0502	000611	4D data read	01110101	read	960.
+0503	EE4D00	EE data read	01110101	read	1.00
+0504*	0003C2	EOR (10,S),Y	01111101	opcde	960.
+0505	0003C3	10 operand fetched	01101101	oprnd	1.00
+0506	0003C3	10 false read	01100101	fread	960.
+0507	00080C	F0 data read	01110101	read	960.
+0508	00080D	0C data read	01110101	read	1.00
+0509	00080D	0C false read	01100101	fread	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	ASM	[BIN]	[USP]	[Pele]
[Mark]	XXXXXX	Instructions	XXXXXXXX	YYYYYY	
+0510	EE0DE4	00 data read	01110101	read	1.00
+0511*	0003C4	REP #30	11111101	opcde	960.
+0512	0003C5	30 operand fetched	11101101	oprnd	1.00
+0513	0003C5	30 false read	11100101	fread	960.
+0514*	0003C6	LDA #000F	11111001	opcde	1.00
+0515	0003C7	0F operand fetched	11101000	oprnd	960.
+0516	0003C8	00 operand fetched	11101000	oprnd	960.
+0517*	0003C9	LDX #FFFD	11111000	opcde	1.00
+0518	0003CA	FD operand fetched	11101000	oprnd	960.
+0519	0003CB	FF operand fetched	11101000	oprnd	1.00
+0520*	0003CC	LDY #FFFD	11111000	opcde	960.
+0521	0003CD	FD operand fetched	11101000	oprnd	1.00
+0522	0003CE	FF operand fetched	11101000	oprnd	960.
+0523*	0003CF	SEP #30	11111000	opcde	1.00
+0524	0003D0	30 operand fetched	01101000	oprnd	960.
+0525	0003D0	30 false read	01100000	fread	960.
+0526*	0003D1	MVN FFEE block move	01111100	opcde	1.00
+0527	0003D2	EE operand fetched	01101101	oprnd	960.
+0528	0003D3	FF operand fetched	01101101	oprnd	1.00
+0529	FF00FD	F0 data read	01110101	read	960.
+0530	EE00FD	F0 data written	00110101	write	1.00
+0531	EE00FD	F0 false read	01100101	fread	960.
+0532	EE00FD	F0 false read	01100101	fread	1.00
+0533*	0003D1	MVN FFEE block move	01111101	opcde	960.
+0534	0003D2	EE operand fetched	11101101	oprnd	1.00
+0535	0003D3	FF operand fetched	11101101	oprnd	960.
+0536	FF00FE	0F data read	11110101	read	960.
+0537	EE00FE	0F data written	10110101	write	1.00
+0538	EE00FE	0F false read	11100101	fread	960.
+0539	EE00FE	0F false read	11100101	fread	1.00
+0540*	0003D1	MVN FFEE block move	11111101	opcde	960.
+0541	0003D2	EE operand fetched	11101101	oprnd	1.00
+0542	0003D3	FF operand fetched	11101101	oprnd	1.12
+0543	FF00FF	F1 data read	11110101	read	960.
+0544	EE00FF	F1 data written	10110101	write	960.
+0545	EE00FF	F1 false read	11100101	fread	1.00
+0546	EE00FF	F1 false read	11100101	fread	960.
+0547*	0003D1	MVN FFEE block move	01111101	opcde	1.00
+0548	0003D2	EE operand fetched	01101101	oprnd	960.
+0549	0003D3	FF operand fetched	01101101	oprnd	1.00
+0550	FF0000	FA data read	01110101	read	960.
+0551	EE0000	FA data written	00110101	write	1.00
+0552	EE0000	FA false read	01100101	fread	960.
+0553	EE0000	FA false read	01100101	fread	960.
+0554*	0003D1	MVN FFEE block move	01111101	opcde	1.00
+0555	0003D2	EE operand fetched	01101101	oprnd	960.
+0556	0003D3	FF operand fetched	01101101	oprnd	1.00
+0557	FF0001	8E data read	11110101	read	960.
+0558	EE0001	8E data written	10110101	write	1.00
+0559	EE0001	8E false read	11100101	fread	960.
+0560	EE0001	8E false read	11100101	fread	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HEX]	[ASM]	[BIN]	[USP]	[Rela]
[Mar]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0561*	0003D1	MVN FFEE block move	11111101	opcde	960.
+0562	0003D2	EE operand fetched	11101101	oprnd	960.
+0563	0003D3	FF operand fetched	11101101	oprnd	1.00
+0564	FF0002	62 data read	11110101	read	960.
+0565	EE0002	62 data written	10110101	write	1.00
+0566	EE0002	62 false read	11100101	fread	960.
+0567	EE0002	62 false read	11100101	fread	1.00
+0568*	0003D1	MVN FFEE block move	11111101	opcde	960.
+0569	0003D2	EE operand fetched	11101101	oprnd	1.00
+0570	0003D3	FF operand fetched	01101101	oprnd	960.
+0571	FF0003	09 data read	01110101	read	960.
+0572	EE0003	09 data written	00110101	write	1.00
+0573	EE0003	09 false read	01100101	fread	960.
+0574	EE0003	09 false read	01100101	fread	1.00
+0575*	0003D1	MVN FFEE block move	01111101	opcde	960.
+0576	0003D2	EE operand fetched	01101101	oprnd	1.00
+0577	0003D3	FF operand fetched	01101101	oprnd	960.
+0578	FF0004	F2 data read	01110101	read	1.00
+0579	EE0004	F2 data written	00110101	write	960.
+0580	EE0004	F2 false read	11100101	fread	960.
+0581	EE0004	F2 false read	11100101	fread	1.00
+0582*	0003D1	MVN FFEE block move	11111101	opcde	960.
+0583	0003D2	EE operand fetched	11101101	oprnd	1.00
+0584	0003D3	FF operand fetched	11101101	oprnd	960.
+0585	FF0005	09 data read	11110101	read	1.00
+0586	EE0005	09 data written	10110101	write	960.
+0587	EE0005	09 false read	11100101	fread	1.00
+0588	EE0005	09 false read	11100101	fread	960.
+0589*	0003D1	MVN FFEE block move	11111101	opcde	960.
+0590	0003D2	EE operand fetched	11101101	oprnd	1.00
+0591	0003D3	FF operand fetched	11101101	oprnd	960.
+0592	FF0006	EC data read	11110101	read	1.00
+0593	EE0006	EC data written	00110101	write	960.
+0594	EE0006	EC false read	01100101	fread	1.00
+0595	EE0006	EC false read	01100101	fread	960.
+0596*	0003D1	MVN FFEE block move	01111101	opcde	1.00
+0597	0003D2	EE operand fetched	01101101	oprnd	960.
+0598	0003D3	FF operand fetched	01101101	oprnd	1.00
+0599	FF0007	09 data read	01110101	read	960.
+0600	EE0007	09 data written	00110101	write	960.
+0601	EE0007	09 false read	01100101	fread	1.00
+0602	EE0007	09 false read	01100101	fread	960.
+0603*	0003D1	MVN FFEE block move	11111101	opcde	1.00
+0604	0003D2	EE operand fetched	11101101	oprnd	960.
+0605	0003D3	FF operand fetched	11101101	oprnd	1.00
+0606	FF0008	F1 data read	11110101	read	960.
+0607	EE0008	F1 data written	10110101	write	1.12
+0608	EE0008	F1 false read	11100101	fread	960.
+0609	EE0008	F1 false read	11100101	fread	1.00
+0610*	0003D1	MVN FFEE block move	11111101	opcde	960.
+0611	0003D2	EE operand fetched	11101101	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<1
Base >	[HEX]	[ASM]	[BIN]	[USP]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0612	0003D3	FF operand fetched	11101101	oprnd	960.
+0613	FF0009	CB data read	11110101	read	1.00
+0614	EE0009	CB data written	10110101	write	960.
+0615	EE0009	CB false read	11100101	fread	1.00
+0616	EE0009	CB false read	01100101	fread	960.
+0617*	0003D1	MVN FFEE block move	01111101	opcde	960.
+0618	0003D2	EE operand fetched	01101101	oprnd	1.00
+0619	0003D3	FF operand fetched	01101101	oprnd	960.
+0620	FF000A	F1 data read	01110101	read	1.00
+0621	EE000A	F1 data written	00110101	write	960.
+0622	EE000A	F1 false read	01100101	fread	1.00
+0623	EE000A	F1 false read	01100101	fread	960.
+0624*	0003D1	MVN FFEE block move	01111101	opcde	1.00
+0625	0003D2	EE operand fetched	01101101	oprnd	960.
+0626	0003D3	FF operand fetched	11101101	oprnd	1.00
+0627	FF000B	0C data read	11110101	read	960.
+0628	EE000B	0C data written	10110101	write	960.
+0629	EE000B	0C false read	11100101	fread	1.00
+0630	EE000B	0C false read	11100101	fread	960.
+0631*	0003D1	MVN FFEE block move	11111101	opcde	1.00
+0632	0003D2	EE operand fetched	11101101	oprnd	960.
+0633	0003D3	FF operand fetched	11101101	oprnd	1.00
+0634	FF000C	F0 data read	11110101	read	960.
+0635	EE000C	F0 data written	10110101	write	960.
+0636	EE000C	F0 false read	11100101	fread	1.00
+0637	EE000C	F0 false read	11100101	fread	960.
+0638*	0003D4	EOR 10,X	11111101	opcde	1.00
+0639	0003D5	10 operand fetched	01101101	oprnd	960.
+0640	0003D5	10 false read	01100101	fread	1.00
+0641	00061D	53 data read	01110101	read	960.
+0642*	0003D6	LSR 10,X	01111101	opcde	1.00
+0643	0003D7	10 operand fetched	01101101	oprnd	960.
+0644	0003D7	10 false read	01100101	fread	960.
+0645	00061D	53 data read	01110101	read	1.00
+0646	00061D	53 false read	01100101	fread	960.
+0647	00061D	29 data written	00110101	write	1.00
+0648*	0003D8	EOR [10],Y	01111101	opcde	960.
+0649	0003D9	10 operand fetched	11101101	oprnd	1.00
+0650	000610	00 data read	11110101	read	960.
+0651	000611	40 data read	11110101	read	1.00
+0652	000612	2E data read	11110101	read	960.
+0653	2E400D	2E data read	11110101	read	960.
+0654*	0003DA	CLI	11111101	opcde	1.00
+0655	0003DB	78 false read	11100101	fread	960.
+0656*	0003DB	SEI	11111101	opcde	1.00
+0657	0003DC	59 false read	11100101	fread	960.
+0658*	0003DC	EOR FFFF,Y	11111101	opcde	1.00
+0659	0003DD	FF operand fetched	11101101	oprnd	960.
+0660	0003DE	FF operand fetched	11101101	oprnd	1.00
+0661	EE03DE	FF false read	11100101	fread	960.
+0662	EF000C	F0 data read	01110101	read	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HEX]	[ASM]	[RIN]	[USR]	[Rela]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0663*	0003DF	PHY	01111101	opcde	960.
+0664	0003E0	5D false read	01100101	fread	960.
+0665	0007FC	0D data written	00110101	write	1.00
+0666*	0003E0	EOR FFFF,X	01111101	opcde	960.
+0667	0003E1	FF operand fetched	01101101	oprnd	1.00
+0668	0003E2	FF operand fetched	01101101	oprnd	960.
+0669	EE03E2	FF false read	01100101	fread	1.00
+0670	EF000C	F0 data read	01110101	read	960.
+0671*	0003E3	LSR FFFF,X	01111101	opcde	1.00
+0672	0003E4	FF operand fetched	11101101	oprnd	1.08
+0673	0003E5	FF operand fetched	11101101	oprnd	1.00
+0674	EE03E5	FF false read	11100101	fread	960.
+0675	EF000C	F0 data read	11110101	read	1.00
+0676	EF000C	F0 false read	11100101	fread	960.
+0677	EF000C	78 data written	10110101	write	1.00
+0678*	0003E6	EOR FFFFF,X	11111101	opcde	960.
+0679	0003E7	FF operand fetched	11101101	oprnd	1.00
+0680	0003E8	FF operand fetched	11101101	oprnd	960.
+0681	0003E9	FF operand fetched	11101101	oprnd	960.
+0682	00000C	78 data read	11110101	read	1.00
+0683*	0003EA	ADC (10,X)	11111101	opcde	960.
+0684	0003EB	10 operand fetched	11101101	oprnd	1.00
+0685	0003EB	10 false read	01100101	fread	960.
+0686	00061D	29 data read	01110101	read	1.00
+0687	00061E	4D data read	01110101	read	960.
+0688	EE4D29	EE data read	01110101	read	1.00
+0689*	0003EC	PER 1177 (delta=+0D88)	01111101	opcde	960.
+0690	0003ED	88 operand fetched	01101101	oprnd	960.
+0691	0003EE	0D operand fetched	01101101	oprnd	1.00
+0692	0003EE	0D false read	01100101	fread	960.
+0693	0007FB	11 data written	00110101	write	1.00
+0694	0007FA	77 data written	00110101	write	960.
+0695*	0003EF	ADC 10,S	11111101	opcde	1.00
+0696	0003F0	10 operand fetched	11101101	oprnd	960.
+0697	0003F0	10 false read	11100101	fread	1.00
+0698	000809	CB data read	11110101	read	960.
+0699*	0003F1	STZ 10	11111101	opcde	960.
+0700	0003F2	10 operand fetched	11101101	oprnd	1.00
+0701	000610	00 data written	10110101	write	960.
+0702*	0003F3	ADC 10	11111101	opcde	1.00
+0703	0003F4	10 operand fetched	11101101	oprnd	960.
+0704	000610	00 data read	11110101	read	1.00
+0705*	0003F5	ROR 10	11111101	opcde	960.
+0706	0003F6	10 operand fetched	11101101	oprnd	1.00
+0707	000610	00 data read	11110101	read	960.
+0708	000610	00 false read	01100101	fread	960.
+0709	000610	00 data written	00110101	write	1.00
+0710*	0003F7	ADC [10]	01111101	opcde	960.
+0711	0003F8	10 operand fetched	01101101	oprnd	1.00
+0712	000610	00 data read	01110101	read	960.
+0713	000611	4D data read	01110101	read	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Marl]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0714	000512	2E data read	01110101	read	960.
+0715	2E4D00	2E data read	01110101	read	1.00
+0716*	0003F9	PHA	01111101	opcde	960.
+0717	0003FA	68 false read	01100101	fread	960.
+0718	0007F9	E3 data written	10110101	write	1.00
+0719*	0003FA	PLA	11111101	opcde	960.
+0720	0003FB	69 false read	11100101	fread	1.00
+0721	0003FB	69 false read	11100101	fread	960.
+0722	0007F9	E3 data read	11110101	read	1.00
+0723*	0003FB	ADC #77	11111101	opcde	960.
+0724	0003FC	77 operand fetched	11101101	oprnd	1.00
+0725*	0003FD	ROR Accumulator	11111101	opcde	960.
+0726	0003FE	6D false read	11100101	fread	960.
+0727*	0003FE	ADC FFFF	11111101	opcde	1.00
+0728	0003FF	FF operand fetched	11101101	oprnd	960.
+0729	000400	FF operand fetched	11101101	oprnd	1.00
+0730	EEFFFF	02 data read	11110101	read	960.
+0731*	000401	ROR FFFF	01111101	opcde	1.00
+0732	000402	FF operand fetched	01101101	oprnd	960.
+0733	000403	FF operand fetched	01101101	oprnd	1.00
+0734	EEFFFF	02 data read	01110101	read	960.
+0735	EEFFFF	02 false read	01100101	fread	1.00
+0736	EEFFFF	01 data written	00110101	write	960.
+0737*	000404	ADC FFFFFF	01111101	opcde	1.12
+0738	000405	FF operand fetched	01101101	oprnd	960.
+0739	000406	FF operand fetched	01101101	oprnd	1.00
+0740	000407	FF operand fetched	01101101	oprnd	960.
+0741	FFFFFF	02 data read	11110101	read	1.00
+0742*	000408	ADC (10),Y	11111101	opcde	960.
+0743	000409	10 operand fetched	11101101	oprnd	1.00
+0744	000510	00 data read	11110101	read	960.
+0745	000511	4D data read	11110101	read	960.
+0746	EE4D00	EE data read	11110101	read	1.00
+0747*	00040A	ADC (10)	11111101	opcde	960.
+0748	00040B	10 operand fetched	11101101	oprnd	1.00
+0749	000510	00 data read	11110101	read	960.
+0750	000511	4D data read	11110101	read	1.00
+0751	EE4D00	EE data read	11110101	read	960.
+0752*	00040C	ADC (10,S),Y	11111101	opcde	1.00
+0753	00040D	10 operand fetched	11101101	oprnd	960.
+0754	00040D	10 false read	01100101	fread	960.
+0755	000809	CB data read	01110101	read	1.00
+0756	00080A	F1 data read	01110101	read	960.
+0757	00080A	F1 false read	01100101	fread	1.00
+0758	EEF1D8	83 data read	01110101	read	960.
+0759*	00040E	STZ 10,X	01111101	opcde	1.00
+0760	00040F	10 operand fetched	01101101	oprnd	960.
+0761	00040F	10 false read	01100101	fread	1.00
+0762	00051D	00 data written	00110101	write	960.
+0763*	000410	ADC 10,X	01111101	opcde	960.
+0764	000411	10 operand fetched	11101101	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<I
Base	> [HEX]	[ASM]	[PIN]	[USR]	T1 [Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0765	000411	10 false read	11100101	fread	960.
+0766	00061D	00 data read	11110101	read	1.00
+0767*	000412	ROR 10,X	11111101	opcde	960.
+0768	000413	10 operand fetched	11101101	oprnd	1.00
+0769	000413	10 false read	11100101	fread	960.
+0770	00061D	00 data read	11110101	read	1.00
+0771	00061D	00 false read	11100101	fread	960.
+0772	00061D	00 data written	10110101	write	960.
+0773*	000414	ADC [10],Y	11111101	opcde	1.00
+0774	000415	10 operand fetched	11101101	oprnd	960.
+0775	000610	00 data read	11110101	read	1.00
+0776	000611	4D data read	11110101	read	960.
+0777	000612	2E data read	01110101	read	1.00
+0778	2E4D0D	2E data read	01110101	read	960.
+0779*	000416	ADC FFFF,Y	01111101	opcde	1.00
+0780	000417	FF operand fetched	01101101	oprnd	960.
+0781	000418	FF operand fetched	01101101	oprnd	960.
+0782	EE0418	FF false read	01100101	fread	1.00
+0783	EF000C	78 data read	01110101	read	960.
+0784*	000419	PHY	01111101	opcde	1.00
+0785	00041A	7A false read	01100101	fread	960.
+0786	0007F9	0D data written	00110101	write	1.00
+0787*	00041A	PLY	11111101	opcde	960.
+0788	00041B	7B false read	11100101	fread	1.00
+0789	00041B	7B false read	11100101	fread	960.
+0790	0007F9	0D data read	11110101	read	960.
+0791*	00041B	TDC	11111101	opcde	1.00
+0792	00041C	7D false read	11100101	fread	960.
+0793*	00041C	ADC FFFF,X	11111101	opcde	1.00
+0794	00041D	FF operand fetched	11101101	oprnd	960.
+0795	00041E	FF operand fetched	11101101	oprnd	1.00
+0796	EE041E	FF false read	11100101	fread	960.
+0797	EF000C	78 data read	11110101	read	1.00
+0798*	00041F	ROR FFFF,X	11111101	opcde	960.
+0799	000420	FF operand fetched	11101101	oprnd	960.
+0800	000421	FF operand fetched	01101101	oprnd	1.00
+0801	EE0421	FF false read	01100101	fread	960.
+0802	EF000C	78 data read	01110101	read	1.12
+0803	EF000C	78 false read	01100101	fread	1.00
+0804	EF000C	3C data written	00110101	write	960.
+0805*	000422	ADC FFFFFFF,X	01111101	opcde	1.00
+0806	000423	FF operand fetched	01101101	oprnd	960.
+0807	000424	FF operand fetched	01101101	oprnd	1.00
+0808	000425	FF operand fetched	01101101	oprnd	960.
+0809	00000C	3C data read	01110101	read	960.
+0810*	000426	STA (10,X)	11111101	opcde	1.00
+0811	000427	10 operand fetched	11101101	oprnd	960.
+0812	000427	10 false read	11100101	fread	1.00
+0813	00061D	00 data read	11110101	read	960.
+0814	00061E	4D data read	11110101	read	1.00
+0815	EE4D0D	B4 data written	10110101	write	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXXXX	[XXXXXX]	
+0816*	000428	STA 10,S	11111101	opcde	1.00
+0817	000429	10 operand fetched	11101101	oprnd	950.
+0818	000429	10 false read	11100101	fread	950.
+0819	000809	B4 data written	10110101	write	1.00
+0820*	00042A	STY 10	11111101	opcde	950.
+0821	00042B	10 operand fetched	11101101	oprnd	1.00
+0822	000610	0D data written	10110101	write	950.
+0823*	00042C	STA 10	01111101	opcde	1.00
+0824	00042D	10 operand fetched	01101101	oprnd	950.
+0825	000610	B4 data written	00110101	write	1.00
+0826*	00042E	STX 10	01111101	opcde	950.
+0827	00042F	10 operand fetched	01101101	oprnd	950.
+0828	000610	0D data written	00110101	write	1.00
+0829*	000430	STA [10]	01111101	opcde	950.
+0830	000431	10 operand fetched	01101101	oprnd	1.00
+0831	000610	0D data read	01110101	read	950.
+0832	000611	4D data read	01110101	read	1.00
+0833	000612	2E data read	11110101	read	950.
+0834	2E4D0D	B4 data written	10110101	write	1.00
+0835*	000432	DEY	11111101	opcde	950.
+0836	000433	89 false read	11100101	fread	950.
+0837*	000433	BIT #77	11111101	opcde	1.00
+0838	000434	77 operand fetched	11101101	oprnd	950.
+0839*	000435	TXA	11111101	opcde	1.00
+0840	000436	8B false read	11100101	fread	950.
+0841*	000436	PHB	11111101	opcde	1.00
+0842	000437	8C false read	11100101	fread	950.
+0843	0007F9	EE data written	10110101	write	1.00
+0844*	000437	STY FFFF	11111101	opcde	950.
+0845	000438	FF operand fetched	11101101	oprnd	950.
+0846	000439	FF operand fetched	01101101	oprnd	1.00
+0847	EEFFFF	0C data written	00110101	write	950.
+0848*	00043A	STA FFFF	01111101	opcde	1.00
+0849	00043B	FF operand fetched	01101101	oprnd	950.
+0850	00043C	FF operand fetched	01101101	oprnd	1.00
+0851	EEFFFF	0D data written	00110101	write	950.
+0852*	00043D	STX FFFF	01111101	opcde	1.00
+0853	00043E	FF operand fetched	01101101	oprnd	950.
+0854	00043F	FF operand fetched	01101101	oprnd	1.00
+0855	EEFFFF	0D data written	00110101	write	950.
+0856*	000440	STA FFFFFF	11111101	opcde	950.
+0857	000441	FF operand fetched	11101101	oprnd	1.00
+0858	000442	FF operand fetched	11101101	oprnd	950.
+0859	000443	FF operand fetched	11101101	oprnd	1.00
+0860	FFFFFF	0D data written	10110101	write	950.
+0861*	000444	STA (10),Y	11111101	opcde	1.00
+0862	000445	10 operand fetched	11101101	oprnd	950.
+0863	000610	0D data read	11110101	read	950.
+0864	000611	4D data read	11110101	read	1.00
+0865	EE4D19	EE false read	11100101	fread	950.
+0866	EE4D19	0D data written	10110101	write	1.00

State Listing

Label	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base > [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0867*	000446	STA (10)	11111101	opcde 1.12
+0868	000447	10 operand fetched	11101101	oprnd 960.
+0869	000610	0D data read	01110101	read 1.00
+0870	000611	4D data read	01110101	read 960.
+0871	EE4D0D	0D data written	00110101	write 1.00
+0872*	000448	STA (10,S),Y	01111101	opcde 960.
+0873	000449	10 operand fetched	01101101	oprnd 960.
+0874	000449	10 false read	01100101	fread 1.00
+0875	000808	F1 data read	01110101	read 960.
+0876	000809	B4 data read	01110101	read 1.00
+0877	000809	B4 false read	01100101	fread 960.
+0878	EEB4FD	0D data written	00110101	write 1.00
+0879*	00044A	STY 10,X	11111101	opcde 960.
+0880	00044B	10 operand fetched	11101101	oprnd 1.00
+0881	00044B	10 false read	11100101	fread 960.
+0882	00061D	0C data written	10110101	write 960.
+0883*	00044C	STA 10,X	11111101	opcde 1.00
+0884	00044D	10 operand fetched	11101101	oprnd 960.
+0885	00044D	10 false read	11100101	fread 1.00
+0886	00061D	0D data written	10110101	write 960.
+0887*	00044E	STX 10,Y	11111101	opcde 1.00
+0888	00044F	10 operand fetched	11101101	oprnd 960.
+0889	00044F	10 false read	11100101	fread 1.00
+0890	00061C	0D data written	10110101	write 960.
+0891*	000450	STA [10],Y	11111101	opcde 960.
+0892	000451	10 operand fetched	01101101	oprnd 1.00
+0893	000610	0D data read	01110101	read 960.
+0894	000611	4D data read	01110101	read 1.00
+0895	000612	2E data read	01110101	read 960.
+0896	2E4D19	0D data written	00110101	write 1.00
+0897*	000452	TYA	01111101	opcde 960.
+0898	000453	99 false read	01100101	fread 1.00
+0899*	000453	STA FFFF,Y	01111101	opcde 960.
+0900	000454	FF operand fetched	01101101	oprnd 960.
+0901	000455	FF operand fetched	01101101	oprnd 1.00
+0902	EEFF0B	FF false read	11100101	fread 960.
+0903	EF000B	0C data written	10110101	write 1.00
+0904*	000456	TSX	11111101	opcde 960.
+0905	000457	9A false read	11100101	fread 1.00
+0906*	000457	TXS	11111101	opcde 960.
+0907	000458	9B false read	11100101	fread 1.00
+0908*	000458	TXY	11111101	opcde 960.
+0909	000459	9C false read	11100101	fread 960.
+0910*	000459	STZ FFFF	11111101	opcde 1.00
+0911	00045A	FF operand fetched	11101101	oprnd 960.
+0912	00045B	FF operand fetched	11101101	oprnd 1.00
+0913	EEFFFF	00 data written	10110101	write 960.
+0914*	00045C	STA FFFF,X	11111101	opcde 1.00
+0915	00045D	FF operand fetched	01101101	oprnd 960.
+0916	00045E	FF operand fetched	01101101	oprnd 1.00
+0917	EEFFFF	00 false read	01100101	fread 960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0918	EF00F7	0C data written	00110101	write	950.
+0919*	00045F	STZ FFFF,X	01111101	opcde	1.00
+0920	000460	FF operand fetched	01101101	oprnd	950.
+0921	000461	FF operand fetched	01101101	oprnd	1.00
+0922	EE0461	FF false read	01100101	fread	950.
+0923	EF00F7	00 data written	00110101	write	1.00
+0924*	000462	STA FFFFFFF,X	01111101	opcde	950.
+0925	000463	FF operand fetched	11101101	oprnd	1.00
+0926	000464	FF operand fetched	11101101	oprnd	950.
+0927	000465	FF operand fetched	11101101	oprnd	950.
+0928	0000F7	0C data written	10110101	write	1.00
+0929*	000466	LDY #77	11111101	opcde	950.
+0930	000467	77 operand fetched	11101101	oprnd	1.00
+0931*	000468	LDA (10,X)	11111101	opcde	950.
+0932	000469	10 operand fetched	11101101	oprnd	1.12
+0933	000469	10 false read	11100101	fread	1.00
+0934	000708	D2 data read	11110101	read	950.
+0935	000709	CF data read	11110101	read	1.00
+0936	EECFD2	00 data read	11110101	read	950.
+0937*	00046A	LDX #77	11111101	opcde	950.
+0938	00046B	77 operand fetched	01101101	oprnd	1.00
+0939*	00046C	LDA 10,S	01111101	opcde	950.
+0940	00046D	10 operand fetched	01101101	oprnd	1.00
+0941	00046D	10 false read	01100101	fread	950.
+0942	000108	0F data read	01110101	read	1.00
+0943*	00046E	LDY 10	01111101	opcde	950.
+0944	00046F	10 operand fetched	01101101	oprnd	1.00
+0945	000510	0D data read	01110101	read	950.
+0946*	000470	LDA 10	01111101	opcde	950.
+0947	000471	10 operand fetched	01101101	oprnd	1.00
+0948	000510	0D data read	11110101	read	950.
+0949*	000472	LDX 10	11111101	opcde	1.00
+0950	000473	10 operand fetched	11101101	oprnd	950.
+0951	000510	0D data read	11110101	read	1.00
+0952*	000474	LDA [10]	11111101	opcde	950.
+0953	000475	10 operand fetched	11101101	oprnd	1.00
+0954	000510	0D data read	11110101	read	950.
+0955	000511	4D data read	11110101	read	950.
+0956	000512	2E data read	11110101	read	1.00
+0957	2E4D0D	2E data read	11110101	read	950.
+0958*	000476	TAY	11111101	opcde	1.00
+0959	000477	A9 false read	11100101	fread	950.
+0960*	000477	LDA #77	11111101	opcde	1.00
+0961	000478	77 operand fetched	01101101	oprnd	950.
+0962*	000479	TAX	01111101	opcde	1.00
+0963	00047A	A8 false read	01100101	fread	950.
+0964*	00047A	PLB	01111101	opcde	950.
+0965	00047B	AC false read	01100101	fread	1.00
+0966	00047B	AC false read	01100101	fread	950.
+0967	0000F9	F0 data read	01110101	read	1.00
+0968*	00047B	LDY FFFF	01111101	opcde	950.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<1
Base	[HEX]	ASM	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	Instructions	XXXXXXXX	[XXXXX]	
+0969	00047C	FF operand fetched	01101101	oprnd	1.00
+0970	00047D	FF operand fetched	01101101	oprnd	960.
+0971	F0FFFF	00 data read	11110101	read	1.00
+0972*	00047E	LDA FFFF	11111101	opcde	960.
+0973	00047F	FF operand fetched	11101101	oprnd	960.
+0974	000480	FF operand fetched	11101101	oprnd	1.00
+0975	F0FFFF	00 data read	11110101	read	960.
+0976*	000481	LDX FFFF	11111101	opcde	1.00
+0977	000482	FF operand fetched	11101101	oprnd	960.
+0978	000483	FF operand fetched	11101101	oprnd	1.00
+0979	F0FFFF	00 data read	11110101	read	960.
+0980*	000484	LDA FFFFFF	11111101	opcde	1.00
+0981	000485	FF operand fetched	11101101	oprnd	960.
+0982	000486	FF operand fetched	11101101	oprnd	960.
+0983	000487	FF operand fetched	11101101	oprnd	1.00
+0984	FFFFFF	00 data read	01110101	read	960.
+0985*	000488	LDA (10),Y	01111101	opcde	1.00
+0986	000489	10 operand fetched	01101101	oprnd	960.
+0987	000610	0D data read	01110101	read	1.00
+0988	000611	4D data read	01110101	read	960.
+0989	F04D0D	F0 data read	01110101	read	1.00
+0990*	00048A	LDA (10)	01111101	opcde	960.
+0991	00048B	10 operand fetched	01101101	oprnd	960.
+0992	000610	0D data read	01110101	read	1.00
+0993	000611	4D data read	01110101	read	960.
+0994	F04D0D	F0 data read	11110101	read	1.00
+0995*	00048C	LDA (10,S),Y	11111101	opcde	960.
+0996	00048D	10 operand fetched	11101101	oprnd	1.00
+0997	00048D	10 false read	11100101	fread	1.12
+0998	000109	F0 data read	11110101	read	960.
+0999	00010A	0B data read	11110101	read	1.00
+1000	00010A	0B false read	11100101	fread	960.
+1001	F00BF0	10 data read	11110101	read	960.
+1002*	00048E	LDY 10,X	11111101	opcde	1.00
+1003	00048F	10 operand fetched	11101101	oprnd	960.
+1004	00048F	10 false read	11100101	fread	1.00
+1005	000610	0D data read	11110101	read	960.
+1006*	000490	LDA 10,X	11111101	opcde	1.00
+1007	000491	10 operand fetched	01101101	oprnd	960.
+1008	000491	10 false read	01100101	fread	1.00
+1009	000610	0D data read	01110101	read	960.
+1010*	000492	LDX 10,Y	01111101	opcde	960.
+1011	000493	10 operand fetched	01101101	oprnd	1.00
+1012	000493	10 false read	01100101	fread	960.
+1013	00061D	0D data read	01110101	read	1.00
+1014*	000494	LDA [10],Y	01111101	opcde	960.
+1015	000495	10 operand fetched	01101101	oprnd	1.00
+1016	000610	0D data read	01110101	read	960.
+1017	000611	4D data read	11110101	read	1.00
+1018	000612	2E data read	11110101	read	960.
+1019	2E4D1A	2E data read	11110101	read	960.

State Listing

Label>	ADDR	Apple 55816 InvAsm 1.0	STAT	EXTRA	Ti
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0000*	000496	CLV	11111101	opcde	0.
+0001	000497	B9 false read	11100101	fread	950.
+0002*	000497	LDA FFFF,Y	11111101	opcde	1.00
+0003	000498	FF operand fetched	11101101	oprnd	950.
+0004	000499	FF operand fetched	11101101	oprnd	1.00
+0005	F00499	FF false read	11100101	fread	950.
+0006	F1000C	38 data read	11110101	read	950.
+0007*	00049A	TYX	11111101	opcde	1.00
+0008	00049B	BC false read	11100101	fread	950.
+0009*	00049B	LDY FFFF,X	11111101	opcde	1.00
+0010	00049C	FF operand fetched	01101101	oprnd	950.
+0011	00049D	FF operand fetched	01101101	oprnd	1.00
+0012	F0049D	FF false read	01100101	fread	950.
+0013	F1000C	38 data read	01110101	read	1.00
+0014*	00049E	LDA FFFF,X	01111101	opcde	950.
+0015	00049F	FF operand fetched	01101101	oprnd	950.
+0016	0004A0	FF operand fetched	01101101	oprnd	1.00
+0017	F004A0	FF false read	01100101	fread	950.
+0018	F1000C	38 data read	01110101	read	1.00
+0019*	0004A1	LDX FFFF,Y	01111101	opcde	950.
+0020	0004A2	FF operand fetched	11101101	oprnd	1.00
+0021	0004A3	FF operand fetched	11101101	oprnd	950.
+0022	F004A3	FF false read	11100101	fread	1.00
+0023	F10037	F0 data read	11110101	read	950.
+0024*	0004A4	LDA FFFFFFF,X	11111101	opcde	950.
+0025	0004A5	FF operand fetched	11101101	oprnd	1.00
+0026	0004A6	FF operand fetched	11101101	oprnd	950.
+0027	0004A7	FF operand fetched	11101101	oprnd	1.00
+0028	0000EF	00 data read	11110101	read	950.
+0029*	0004A8	CPY #77	11111101	opcde	1.00
+0030	0004A9	77 operand fetched	11101101	oprnd	950.
+0031*	0004AA	CMP (10,X)	11111101	opcde	1.00
+0032	0004AB	10 operand fetched	11101101	oprnd	950.
+0033	0004AB	10 false read	01100101	fread	950.
+0034	000700	D4 data read	01110101	read	1.00
+0035	000701	D2 data read	01110101	read	1.12
+0036	F0D2D4	FF data read	01110101	read	950.
+0037*	0004AC	CMP 10,S	01111101	opcde	1.00
+0038	0004AD	10 operand fetched	01101101	oprnd	950.
+0039	0004AD	10 false read	01100101	fread	1.00
+0040	000109	F0 data read	01110101	read	950.
+0041*	0004AE	CPY 10	01111101	opcde	1.00
+0042	0004AF	10 operand fetched	01101101	oprnd	950.
+0043	000610	0D data read	11110101	read	950.
+0044*	0004B0	CMP 10	11111101	opcde	1.00
+0045	0004B1	10 operand fetched	11101101	oprnd	950.
+0046	000610	0D data read	11110101	read	1.00
+0047*	0004B2	DEC 10	11111101	opcde	950.
+0048	0004B3	10 operand fetched	11101101	oprnd	1.00
+0049	000610	0D data read	11110101	read	950.
+0050	000610	0D false read	11100101	fread	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<1
Base >	[HEX]	[ASM]	[BIN]	[USE]	[Rele]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0051	000610	0C data written	10110101	write	960.
+0052*	0004B4	CMP [10]	11111101	opcde	960.
+0053	0004B5	10 operand fetched	11101101	oprnd	1.00
+0054	000610	0C data read	11110101	read	960.
+0055	000611	4D data read	11110101	read	1.00
+0056	000612	2E data read	01110101	read	960.
+0057	2E4D0C	2E data read	01110101	read	1.00
+0058*	0004B6	INY	01111101	opcde	960.
+0059	0004B7	C9 false read	01100101	fread	1.00
+0060*	0004B7	CMP #77	01111101	opcde	960.
+0061	0004B8	77 operand fetched	01101101	oprnd	960.
+0062*	0004B9	DEX	01111101	opcde	1.00
+0063	0004BA	58 false read	01100101	fread	960.
+0064*	0004BA	CLI	01111101	opcde	1.00
+0065	0004BB	CB false read	01100101	fread	960.
+0066*	0004BB	WAI	11111101	opcde	1.00
+0067	0004BC	78 false read	11100101	fread	960.
+0068	7804BC	78 false read	11100101	fread	960.
+0069	7804BC	78 false read	11100101	fread	1.00
+0070	7804BC	78 false read	11100101	fread	960.
+0071	7804BC	78 false read	11100101	fread	1.00
+0072	7804BC	78 false read	11100101	fread	960.
+0073	7804BC	78 false read	11100101	fread	1.00
+0074	7804BC	78 false read	11100101	fread	960.
+0075	7804BC	78 false read	11100101	fread	1.00
+0076	7804BC	78 false read	11100101	fread	960.
+0077	7804BC	78 false read	11100101	fread	1.00
+0078	7804BC	78 false read	11100101	fread	960.
+0079	7804BC	78 false read	01100101	fread	960.
+0080	7804BC	78 false read	01100101	fread	1.00
+0081	0004BC	78 false read	01100101	fread	960.
+0082*	0004BC	SEI	01111101	opcde	1.00
+0083	0004BC	78 false read	01100101	fread	960.
+0084	0000F9	00 data written	00110101	write	1.00
+0085	0000F8	04 data written	00110101	write	960.
+0086	0000F7	BC data written	00110101	write	1.00
+0087	0000F6	B0 data written	00110101	write	960.
+0088	00FFEE	74 irq native vpull	01010101	vpull	960.
+0089	00FFEF	02 high byte of vpull	11010101	vpull	1.00
+0090*	000274	RTI	11111101	opcde	960.
+0091	000275	A0 false read	11100101	fread	1.00
+0092	000275	A0 false read	11100101	fread	960.
+0093	0000F6	B0 data read	11110101	read	1.00
+0094	0000F7	BC data read	11110101	read	960.
+0095	0000F8	04 data read	11110101	read	1.00
+0096	0000F9	00 data read	11110101	read	960.
+0097*	0004BC	SEI	11111101	opcde	960.
+0098	0004BD	CC false read	11100101	fread	1.00
+0099*	0004BD	CPY FFFF	11111101	opcde	960.
+0100	0004BE	FF operand fetched	11101101	oprnd	1.12
+0101	0004BF	FF operand fetched	11101101	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0102	F0FFFF	00 data read	01110101	read	950.
+0103*	0004C0	CMP FFFF	01111101	opcde	1.00
+0104	0004C1	FF operand fetched	01101101	oprnd	950.
+0105	0004C2	FF operand fetched	01101101	oprnd	1.00
+0106	F0FFFF	00 data read	01110101	read	950.
+0107*	0004C3	DEC FFFF	01111101	opcde	950.
+0108	0004C4	FF operand fetched	01101101	oprnd	1.00
+0109	0004C5	FF operand fetched	01101101	oprnd	950.
+0110	F0FFFF	00 data read	01110101	read	1.00
+0111	F0FFFF	00 false read	01100101	fread	950.
+0112	F0FFFF	FF data written	10110101	write	1.00
+0113*	0004C6	CMP FFFFFF	11111101	opcde	950.
+0114	0004C7	FF operand fetched	11101101	oprnd	1.00
+0115	0004C8	FF operand fetched	11101101	oprnd	950.
+0116	0004C9	FF operand fetched	11101101	oprnd	950.
+0117	FFFFFF	FF data read	11110101	read	1.00
+0118*	0004CA	CMP (10),Y	11111101	opcde	950.
+0119	0004CB	10 operand fetched	11101101	oprnd	1.00
+0120	000610	0C data read	11110101	read	950.
+0121	000611	4D data read	11110101	read	1.00
+0122	F04D45	F0 data read	11110101	read	950.
+0123*	0004CC	CMP (10)	11111101	opcde	1.00
+0124	0004CD	10 operand fetched	11101101	oprnd	950.
+0125	000610	0C data read	01110101	read	950.
+0126	000611	4D data read	01110101	read	1.00
+0127	F04D0C	F0 data read	01110101	read	950.
+0128*	0004CE	CMP (10,S),Y	01111101	opcde	1.00
+0129	0004CF	10 operand fetched	01101101	oprnd	950.
+0130	0004CF	10 false read	01100101	fread	1.00
+0131	000109	F0 data read	01110101	read	950.
+0132	00010A	0B data read	01110101	read	950.
+0133	00010A	0B false read	01100101	fread	1.00
+0134	F00C29	10 data read	01110101	read	950.
+0135*	0004D0	PEI 10	11111101	opcde	1.00
+0136	0004D1	10 operand fetched	11101101	oprnd	950.
+0137	000610	0C data read	11110101	read	1.00
+0138	000611	4D data read	11110101	read	950.
+0139	0000F9	4D data written	10110101	write	1.00
+0140	0000F8	0C data written	10110101	write	950.
+0141*	0004D2	CMP 10,X	11111101	opcde	1.00
+0142	0004D3	10 operand fetched	11101101	oprnd	950.
+0143	0004D3	10 false read	11100101	fread	950.
+0144	0006FF	D0 data read	11110101	read	1.00
+0145*	0004D4	DEC 10,X	11111101	opcde	950.
+0146	0004D5	10 operand fetched	11101101	oprnd	1.00
+0147	0004D5	10 false read	11100101	fread	950.
+0148	0006FF	D0 data read	01110101	read	1.00
+0149	0006FF	D0 false read	01100101	fread	950.
+0150	0006FF	CF data written	00110101	write	1.00
+0151*	0004D6	CMP [10],Y	01111101	opcde	950.
+0152	0004D7	10 operand fetched	01101101	oprnd	950.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<1
Base	> [HEX]	[ASM]	[BIN]	[USP]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0153	000610	0C data read	01110101	read	1.00
+0154	000611	4D data read	01110101	read	960.
+0155	000612	2E data read	01110101	read	1.00
+0156	2E4D45	2E data read	01110101	read	960.
+0157*	0004D8	CMP FFFF,Y	01111101	opcde	1.00
+0158	0004D9	FF operand fetched	11101101	oprnd	960.
+0159	0004DA	FF operand fetched	11101101	oprnd	1.00
+0160	F004DA	FF false read	11100101	fread	960.
+0161	F10038	0F data read	11110101	read	960.
+0162*	0004DB	PHX	11111101	opcde	1.00
+0163	0004DC	DD false read	11100101	fread	960.
+0164	0000F7	EF data written	10110101	write	1.00
+0165*	0004DC	CMP FFFF,X	11111101	opcde	1.12
+0166	0004DD	FF operand fetched	11101101	oprnd	960.
+0167	0004DE	FF operand fetched	11101101	oprnd	1.00
+0168	F004DE	FF false read	11100101	fread	960.
+0169	F100EE	00 data read	11110101	read	960.
+0170*	0004DF	DEX	11111101	opcde	1.00
+0171	0004E0	DE false read	01100101	fread	960.
+0172*	0004E0	DEC FFFF,X	01111101	opcde	1.00
+0173	0004E1	FF operand fetched	01101101	oprnd	960.
+0174	0004E2	FF operand fetched	01101101	oprnd	1.00
+0175	F004E2	FF false read	01100101	fread	960.
+0176	F100ED	40 data read	01110101	read	1.00
+0177	F100ED	40 false read	01100101	fread	960.
+0178	F100ED	3F data written	00110101	write	1.00
+0179*	0004E3	CMP FFFFFFF,X	01111101	opcde	960.
+0180	0004E4	FF operand fetched	01101101	oprnd	960.
+0181	0004E5	FF operand fetched	11101101	oprnd	1.00
+0182	0004E6	FF operand fetched	11101101	oprnd	960.
+0183	0000ED	3F data read	11110101	read	1.00
+0184*	0004E7	CPX #77	11111101	opcde	960.
+0185	0004E8	77 operand fetched	11101101	oprnd	1.00
+0186*	0004E9	SBC (10,X)	11111101	opcde	960.
+0187	0004EA	10 operand fetched	11101101	oprnd	1.00
+0188	0004EA	10 false read	11100101	fread	960.
+0189	0005FE	06 data read	11110101	read	960.
+0190	0005FF	CF data read	11110101	read	1.00
+0191	F0CF06	00 data read	11110101	read	960.
+0192*	0004EB	SBC 10,S	11111101	opcde	1.00
+0193	0004EC	10 operand fetched	11101101	oprnd	960.
+0194	0004EC	10 false read	01100101	fread	1.00
+0195	000106	09 data read	01110101	read	960.
+0196*	0004ED	CPX 10	01111101	opcde	960.
+0197	0004EE	10 operand fetched	01101101	oprnd	1.00
+0198	000610	0C data read	01110101	read	960.
+0199*	0004EF	SBC 10	01111101	opcde	1.00
+0200	0004F0	10 operand fetched	01101101	oprnd	960.
+0201	000610	0C data read	01110101	read	1.00
+0202*	0004F1	INC 10	01111101	opcde	960.
+0203	0004F2	10 operand fetched	01101101	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<1 T1
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0204	000610	0C data read	11110101	read	960.
+0205	000610	0C false read	11100101	fread	1.00
+0206	000610	0D data written	10110101	write	960.
+0207*	0004F3	SBC [10]	11111101	opcde	960.
+0208	0004F4	10 operand fetched	11101101	oprnd	1.00
+0209	000610	0D data read	11110101	read	960.
+0210	000611	4D data read	11110101	read	1.00
+0211	000612	2E data read	11110101	read	960.
+0212	2E4D0D	2E data read	11110101	read	1.00
+0213*	0004F5	INX	11111101	opcde	960.
+0214	0004F6	E9 false read	11100101	fread	1.00
+0215*	0004F6	SBC #77	11111101	opcde	960.
+0216	0004F7	77 operand fetched	11101101	oprnd	960.
+0217*	0004F8	NOP	01111101	opcde	1.00
+0218	0004F9	EB false read	01100101	fread	960.
+0219*	0004F9	XBA	01111101	opcde	1.00
+0220	0004FA	EC false read	01100101	fread	960.
+0221	0004FA	EC false read	01100101	fread	1.00
+0222*	0004FA	CPX FFFF	01111101	opcde	960.
+0223	0004FB	FF operand fetched	01101101	oprnd	1.00
+0224	0004FC	FF operand fetched	01101101	oprnd	960.
+0225	F0FFFF	FF data read	01110101	read	960.
+0226*	0004FD	SBC FFFF	01111101	opcde	1.00
+0227	0004FE	FF operand fetched	11101101	oprnd	960.
+0228	0004FF	FF operand fetched	11101101	oprnd	1.00
+0229	F0FFFF	FF data read	11110101	read	960.
+0230*	000500	INC FFFF	11111101	opcde	1.12
+0231	000501	FF operand fetched	11101101	oprnd	1.00
+0232	000502	FF operand fetched	11101101	oprnd	960.
+0233	F0FFFF	FF data read	11110101	read	960.
+0234	F0FFFF	FF false read	11100101	fread	1.00
+0235	F0FFFF	00 data written	10110101	write	960.
+0236*	000503	SBC FFFFFFF	11111101	opcde	1.00
+0237	000504	FF operand fetched	11101101	oprnd	960.
+0238	000505	FF operand fetched	11101101	oprnd	1.00
+0239	000506	FF operand fetched	11101101	oprnd	960.
+0240	FFFFFF	00 data read	01110101	read	1.00
+0241*	000507	SBC (10),Y	01111101	opcde	960.
+0242	000508	10 operand fetched	01101101	oprnd	960.
+0243	000610	0D data read	01110101	read	1.00
+0244	000611	4D data read	01110101	read	960.
+0245	F04D46	F0 data read	01110101	read	1.00
+0246*	000509	SBC (10)	01111101	opcde	960.
+0247	00050A	10 operand fetched	01101101	oprnd	1.00
+0248	000610	0D data read	01110101	read	960.
+0249	000611	4D data read	01110101	read	1.00
+0250	F04D0D	F0 data read	11110101	read	960.
+0251*	00050B	SBC (10,S),Y	11111101	opcde	1.00
+0252	00050C	10 operand fetched	11101101	oprnd	960.
+0253	00050C	10 false read	11100101	fread	960.
+0254	000106	09 data read	11110101	read	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<I Tj
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0255	000107	00 data read	11110101	read	950.
+0256	000107	00 false read	11100101	fread	1.00
+0257	F00042	F2 data read	11110101	read	950.
+0258*	00050D	PEA 1177	11111101	opcde	1.00
+0259	00050E	77 operand fetched	11101101	oprnd	950.
+0260	00050F	11 operand fetched	11101101	oprnd	950.
+0261	0000F6	11 data written	10110101	write	1.00
+0262	0000F5	77 data written	10110101	write	950.
+0263*	000510	SBC 10,X	01111101	opcde	1.00
+0264	000511	10 operand fetched	01101101	oprnd	950.
+0265	000511	10 false read	01100101	fread	1.00
+0266	0006FF	CF data read	01110101	read	950.
+0267*	000512	INC 10,X	01111101	opcde	1.00
+0268	000513	10 operand fetched	01101101	oprnd	950.
+0269	000513	10 false read	01100101	fread	1.00
+0270	0006FF	CF data read	01110101	read	950.
+0271	0006FF	CF false read	01100101	fread	950.
+0272	0006FF	D0 data written	00110101	write	1.00
+0273*	000514	SBC [10],Y	11111101	opcde	950.
+0274	000515	10 operand fetched	11101101	oprnd	1.00
+0275	000610	0D data read	11110101	read	950.
+0276	000611	4D data read	11110101	read	1.00
+0277	000612	2E data read	11110101	read	950.
+0278	2E4D46	2E data read	11110101	read	1.00
+0279*	000516	SED	11111101	opcde	950.
+0280	000517	D8 false read	11100101	fread	950.
+0281*	000517	CLD	11111101	opcde	1.00
+0282	000518	F9 false read	11100101	fread	950.
+0283*	000518	SBC FFFF,Y	11111101	opcde	1.00
+0284	000519	FF operand fetched	11101101	oprnd	950.
+0285	00051A	FF operand fetched	11101101	oprnd	1.00
+0286	F0051A	FF false read	01100101	fread	950.
+0287	F10038	0F data read	01110101	read	1.00
+0288*	00051B	PLX	01111101	opcde	950.
+0289	00051C	FD false read	01100101	fread	950.
+0290	00051C	FD false read	01100101	fread	1.00
+0291	0000F5	77 data read	01110101	read	950.
+0292*	00051C	SBC FFFF,X	01111101	opcde	1.00
+0293	00051D	FF operand fetched	01101101	oprnd	950.
+0294	00051E	FF operand fetched	01101101	oprnd	1.00
+0295	F0051E	FF false read	01100101	fread	1.12
+0296	F10076	0F data read	11110101	read	950.
+0297*	00051F	INC FFFF,X	11111101	opcde	950.
+0298	000520	FF operand fetched	11101101	oprnd	1.00
+0299	000521	FF operand fetched	11101101	oprnd	950.
+0300	F00521	FF false read	11100101	fread	1.00
+0301	F10076	0F data read	11110101	read	950.
+0302	F10076	0F false read	11100101	fread	1.00
+0303	F10076	10 data written	10110101	write	950.
+0304*	000522	SBC FFFFFFF,X	11111101	opcde	1.00
+0305	000523	FF operand fetched	11101101	oprnd	950.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	TI
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0306	000524	FF operand fetched	11101101	oprnd	1.00
+0307	000525	FF operand fetched	11101101	oprnd	960.
+0308	000076	10 data read	11110101	read	960.
+0309*	000526	STP	01111101	opcde	1.00
+0310	000527	00 false read	01100101	fread	960.
+0311	000527	00 false read	01100101	fread	1.00
+0312	000527	00 false read	01100101	fread	960.
+0313	000527	00 false read	01100101	fread	1.00
+0314	000527	00 false read	01100101	fread	960.
+0315	000527	00 false read	01100101	fread	1.00
+0316	000527	00 false read	01100101	fread	960.
+0317	000527	00 false read	01100101	fread	960.
+0318	000527	00 false read	01100101	fread	1.00
+0319	000527	00 false read	11100101	fread	960.
+0320	000527	00 false read	11100101	fread	1.00
+0321	000527	00 false read	11100101	fread	960.
+0322	000527	00 false read	11100101	fread	1.00
+0323	000527	00 false read	11100101	fread	960.
+0324	000527	00 false read	11100101	fread	960.
+0325	000527	00 false read	11100101	fread	1.00
+0326	000527	00 false read	11100101	fread	960.
+0327	000527	00 false read	11100101	fread	1.00
+0328	000527	00 false read	11100101	fread	960.
+0329	000527	00 false read	11100101	fread	1.00
+0330	000527	00 false read	11100101	fread	960.
+0331	000527	00 false read	11100101	fread	1.00
+0332	000527	00 false read	01100101	fread	960.
+0333	000527	00 false read	01100101	fread	1.00
+0334	000527	00 false read	01100101	fread	960.
+0335	000527	00 false read	01100101	fread	960.
+0336	000527	00 false read	01100101	fread	1.00
+0337	000527	00 false read	01100101	fread	960.
+0338	000527	00 false read	01100101	fread	1.00
+0339	000527	00 false read	01100101	fread	960.
+0340	000527	00 false read	01100101	fread	1.00
+0341	000527	00 false read	01100101	fread	960.
+0342	000527	00 false read	11100101	fread	1.00
+0343	000527	00 false read	11100101	fread	960.
+0344	000527	00 false read	11100101	fread	960.
+0345	000527	00 false read	11100101	fread	1.00
+0346	000527	00 false read	11100101	fread	960.
+0347	000527	00 false read	11100101	fread	1.00
+0348	000527	00 false read	11100101	fread	960.
+0349	000527	00 false read	11100101	fread	1.00
+0350	000527	00 false read	11100101	fread	960.
+0351	000527	00 false read	11100101	fread	1.00
+0352	000527	00 false read	11100101	fread	960.
+0353	000527	00 false read	11100101	fread	960.
+0354	000527	00 false read	11100101	fread	1.00
+0355	000527	00 false read	01100101	fread	960.
+0356	000527	00 false read	01100101	fread	1.00

65SC816

**NON-branching
opcodes**

e=1

m=1

x=1

State Listing

Label >	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rel]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0000*	000300	CLC	01111111	opcde	0.
+0001	000301	78 false read	01100111	fread	960.
+0002*	000301	SEI	01111111	opcde	1.00
+0003	000302	18 false read	01100111	fread	960.
+0004*	000302	CLC	01111111	opcde	1.00
+0005	000303	FB false read	11100111	fread	960.
+0006*	000303	XCE	11111111	opcde	960.
+0007	000304	C2 false read	11100111	fread	1.00
+0008*	000304	REP #30	11111101	opcde	960.
+0009	000305	30 operand fetched	11101101	oprnd	1.12
+0010	000305	30 false read	11100101	fread	1.00
+0011*	000306	LDA #0500	11111001	opcde	960.
+0012	000307	00 operand fetched	11101000	oprnd	1.00
+0013	000308	06 operand fetched	11101000	oprnd	960.
+0014*	000309	TCD	11111000	opcde	1.00
+0015	00030A	A9 false read	11100000	fread	960.
+0016*	00030A	LDA #07FF	11111000	opcde	960.
+0017	00030B	FF operand fetched	11101000	oprnd	1.00
+0018	00030C	07 operand fetched	01101000	oprnd	960.
+0019*	00030D	TCS	01111000	opcde	1.00
+0020	00030E	38 false read	01100000	fread	960.
+0021*	00030E	SEC	01111000	opcde	1.00
+0022	00030F	FB false read	01100000	fread	960.
+0023*	00030F	XCE	01111000	opcde	1.00
+0024	000310	E2 false read	01100000	fread	960.
+0025*	000310	SEP #30	01111111	opcde	960.
+0026	000311	30 operand fetched	01101111	oprnd	1.00
+0027	000311	30 false read	01100111	fread	960.
+0028*	000312	BRK 10	11111111	opcde	1.00
+0029	000313	10 operand fetched	11101111	oprnd	960.
+0030	0001FF	03 data written	10110111	write	1.00
+0031	0001FE	14 data written	10110111	write	960.
+0032	0001FD	34 data written	10110111	write	1.00
+0033	00FFFE	E4 break emul vpull	11010111	vpull	960.
+0034	00FFFF	02 high byte of vpull	11010111	vpull	960.
+0035*	0002E4	RTI	11111111	opcde	1.00
+0036	0002E5	6B false read	11100111	fread	960.
+0037	0002E5	6B false read	11100111	fread	1.00
+0038	0001FD	34 data read	11110111	read	960.
+0039	0001FE	14 data read	11110111	read	1.00
+0040	0001FF	03 data read	11110111	read	960.
+0041*	000314	ORA (10,X)	01111111	opcde	1.00
+0042	000315	10 operand fetched	01101111	oprnd	960.
+0043	000315	10 false read	01100111	fread	1.00
+0044	000687	80 data read	01110111	read	960.
+0045	000688	C4 data read	01110111	read	960.
+0046	00C480	A0 data read	01110111	read	1.00
+0047*	000316	COP 11	01111111	opcde	960.
+0048	000317	11 operand fetched	01101111	oprnd	1.00
+0049	0001FF	03 data written	00110111	write	960.
+0050	0001FE	18 data written	00110111	write	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0051	0001FD	B4 data written	10110111	write	960.
+0052	00FFF4	90 cop emul vpull	11010111	vpull	960.
+0053	00FFF5	02 high byte of vpull	11010111	vpull	1.00
+0054*	000290	RTI	11111111	opcde	960.
+0055	000291	A0 false read	11100111	fread	1.00
+0056	000291	A0 false read	11100111	fread	960.
+0057	0001FD	B4 data read	11110111	read	1.00
+0058	0001FE	18 data read	11110111	read	960.
+0059	0001FF	03 data read	11110111	read	1.00
+0060*	000318	ORA 10,S	11111111	opcde	960.
+0061	000319	10 operand fetched	11101111	oprnd	960.
+0062	000319	10 false read	11100111	fread	1.00
+0063	00020F	A0 data read	11110111	read	960.
+0064*	00031A	TSB 10	01111111	opcde	1.00
+0065	00031B	10 operand fetched	01101111	oprnd	960.
+0066	000610	0D data read	01110111	read	1.00
+0067	000610	0D false read	01100111	fread	960.
+0068	000610	FF data written	00110111	write	1.00
+0069*	00031C	ORA 10	01111111	opcde	960.
+0070	00031D	10 operand fetched	01101111	oprnd	960.
+0071	000610	FF data read	01110111	read	1.00
+0072*	00031E	ASL 10	01111111	opcde	960.
+0073	00031F	10 operand fetched	01101111	oprnd	1.00
+0074	000610	FF data read	11110111	read	1.12
+0075	000610	FF false write	10100111	fwrt	960.
+0076	000610	FE data written	10110111	write	1.00
+0077*	000320	ORA [10]	11111111	opcde	960.
+0078	000321	10 operand fetched	11101111	oprnd	1.00
+0079	000610	FE data read	11110111	read	960.
+0080	000611	4D data read	11110111	read	960.
+0081	000612	2E data read	11110111	read	1.00
+0082	2E4DFE	2E data read	11110111	read	960.
+0083*	000322	PHP	11111111	opcde	1.00
+0084	000323	09 false read	11100111	fread	960.
+0085	0001FF	85 data written	10110111	write	1.00
+0086*	000323	ORA #77	11111111	opcde	960.
+0087	000324	77 operand fetched	01101111	oprnd	1.00
+0088*	000325	ASL Accumulator	01111111	opcde	960.
+0089	000326	0B false read	01100111	fread	960.
+0090*	000326	PHD	01111111	opcde	1.00
+0091	000327	0C false read	01100111	fread	960.
+0092	0001FE	06 data written	00110111	write	1.00
+0093	0001FD	00 data written	00110111	write	960.
+0094*	000327	TSB FFFF	01111111	opcde	1.00
+0095	000328	FF operand fetched	01101111	oprnd	960.
+0096	000329	FF operand fetched	01101111	oprnd	1.00
+0097	00FFFF	02 data read	11110111	read	960.
+0098	00FFFF	02 false read	11100111	fread	960.
+0099	00FFFF	FE data written	10110111	write	1.00
+0100*	00032A	ORA FFFF	11111111	opcde	960.
+0101	00032B	FF operand fetched	11101111	oprnd	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	Ti
Base	> [HEX]	[ASM]	[BIN]	[USP]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0102	00032C	FF operand fetched	11101111	oprnd	960.
+0103	00FFFF	02 data read	11110111	read	1.00
+0104*	00032D	ASL FFFF	11111111	opcde	960.
+0105	00032E	FF operand fetched	11101111	oprnd	1.00
+0106	00032F	FF operand fetched	11101111	oprnd	960.
+0107	00FFFF	02 data read	11110111	read	960.
+0108	00FFFF	02 false write	10100111	fwrt	1.00
+0109	00FFFF	04 data written	10110111	write	960.
+0110*	000330	ORA FFFFFF	01111111	opcde	1.00
+0111	000331	FF operand fetched	01101111	oprnd	960.
+0112	000332	FF operand fetched	01101111	oprnd	1.00
+0113	000333	FF operand fetched	01101111	oprnd	960.
+0114	FFFFFF	02 data read	01110111	read	1.00
+0115*	000334	ORA (10),Y	01111111	opcde	960.
+0116	000335	10 operand fetched	01101111	oprnd	960.
+0117	000610	FE data read	01110111	read	1.00
+0118	000611	4D data read	01110111	read	960.
+0119	000611	4D false read	01100111	fread	1.00
+0120	004E02	00 data read	11110111	read	960.
+0121*	000336	ORA (10)	11111111	opcde	1.00
+0122	000337	10 operand fetched	11101111	oprnd	960.
+0123	000610	FE data read	11110111	read	1.00
+0124	000611	4D data read	11110111	read	960.
+0125	004DFE	00 data read	11110111	read	960.
+0126*	000338	ORA (10,S),Y	11111111	opcde	1.00
+0127	000339	10 operand fetched	11101111	oprnd	960.
+0128	000339	10 false read	11100111	fread	1.00
+0129	00020C	E8 data read	11110111	read	960.
+0130	00020D	A0 data read	11110111	read	1.00
+0131	00020D	A0 false read	11100111	fread	960.
+0132	00A0EC	54 data read	11110111	read	1.00
+0133*	00033A	TRB 10	01111111	opcde	960.
+0134	00033B	10 operand fetched	01101111	oprnd	960.
+0135	000610	FE data read	01110111	read	1.00
+0136	000610	FE false read	01100111	fread	960.
+0137	000610	00 data written	00110111	write	1.00
+0138*	00033C	ORA 10,X	01111111	opcde	960.
+0139	00033D	10 operand fetched	01101111	oprnd	1.12
+0140	00033D	10 false read	01100111	fread	1.00
+0141	000687	80 data read	01110111	read	960.
+0142*	00033E	ASL 10,X	01111111	opcde	1.00
+0143	00033F	10 operand fetched	11101111	oprnd	960.
+0144	00033F	10 false read	11100111	fread	960.
+0145	000687	80 data read	11110111	read	1.00
+0146	000687	80 false write	10100111	fwrt	960.
+0147	000687	00 data written	10110111	write	1.00
+0148*	000340	ORA [10],Y	11111111	opcde	960.
+0149	000341	10 operand fetched	11101111	oprnd	1.00
+0150	000610	00 data read	11110111	read	960.
+0151	000611	4D data read	11110111	read	1.00
+0152	000612	2E data read	11110111	read	960.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base >	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0153	2E4D04	2E data read	11110111	read	960.
+0154*	000342	ORA FFFF,Y	11111111	opcde	1.00
+0155	000343	FF operand fetched	11101111	oprnd	960.
+0156	000344	FF operand fetched	01101111	oprnd	1.00
+0157	000344	FF false read	01100111	fread	960.
+0158	010003	0B data read	01110111	read	1.00
+0159*	000345	INC Accumulator	01111111	opcde	960.
+0160	000346	1C false read	01100111	fread	1.00
+0161*	000346	TRB FFFF	01111111	opcde	960.
+0162	000347	FF operand fetched	01101111	oprnd	1.00
+0163	000348	FF operand fetched	01101111	oprnd	960.
+0164	00FFFF	00 data read	01110111	read	960.
+0165	00FFFF	00 false read	01100111	fread	1.00
+0166	00FFFF	00 data written	10110111	write	960.
+0167*	000349	ORA FFFF,X	11111111	opcde	1.00
+0168	00034A	FF operand fetched	11101111	oprnd	960.
+0169	00034B	FF operand fetched	11101111	oprnd	1.00
+0170	00034B	FF false read	11100111	fread	960.
+0171	010076	0A data read	11110111	read	960.
+0172*	00034C	ASL FFFF,X	11111111	opcde	1.00
+0173	00034D	FF operand fetched	11101111	oprnd	960.
+0174	00034E	FF operand fetched	11101111	oprnd	1.00
+0175	00034E	FF false read	11100111	fread	960.
+0176	010076	0A data read	11110111	read	1.00
+0177	010076	0A false write	10100111	furte	960.
+0178	010076	14 data written	10110111	write	1.00
+0179*	00034F	ORA FFFFF,X	01111111	opcde	960.
+0180	000350	FF operand fetched	01101111	oprnd	960.
+0181	000351	FF operand fetched	01101111	oprnd	1.00
+0182	000352	FF operand fetched	01101111	oprnd	960.
+0183	000076	14 data read	01110111	read	1.00
+0184*	000353	AND (10,X)	01111111	opcde	960.
+0185	000354	10 operand fetched	01101111	oprnd	1.00
+0186	000354	10 false read	01100111	fread	960.
+0187	000687	00 data read	01110111	read	1.00
+0188	000688	C4 data read	01110111	read	960.
+0189	00C400	FF data read	11110111	read	960.
+0190*	000355	AND 10,S	11111111	opcde	1.00
+0191	000356	10 operand fetched	11101111	oprnd	960.
+0192	000356	10 false read	11100111	fread	1.00
+0193	00020C	E8 data read	11110111	read	960.
+0194*	000357	BIT 10	11111111	opcde	1.00
+0195	000358	10 operand fetched	11101111	oprnd	960.
+0196	000610	00 data read	11110111	read	1.00
+0197*	000359	AND 10	11111111	opcde	960.
+0198	00035A	10 operand fetched	11101111	oprnd	960.
+0199	000610	00 data read	11110111	read	1.00
+0200*	00035B	ROL 10	11111111	opcde	960.
+0201	00035C	10 operand fetched	11101111	oprnd	1.00
+0202	000610	00 data read	01110111	read	960.
+0203	000610	00 false write	00100111	furte	1.00

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USER]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0204	000610	00 data written	00110111	write	1.12
+0205*	00035D	AND [10]	01111111	opcde	950.
+0206	00035E	10 operand fetched	01101111	oprnd	1.00
+0207	000610	00 data read	01110111	read	950.
+0208	000611	4D data read	01110111	read	950.
+0209	000612	2E data read	01110111	read	1.00
+0210	2E4D00	2E data read	01110111	read	950.
+0211*	00035F	SEP #04	01111111	opcde	1.00
+0212	000360	04 operand fetched	11101111	oprnd	950.
+0213	000360	04 false read	11100111	fread	1.00
+0214*	000361	PHP	11111111	opcde	950.
+0215	000362	28 false read	11100111	fread	1.00
+0216	0001FC	36 data written	10110111	write	950.
+0217*	000362	PLP	11111111	opcde	950.
+0218	000363	29 false read	11100111	fread	1.00
+0219	000363	29 false read	11100111	fread	950.
+0220	0001FC	36 data read	11110111	read	1.00
+0221*	000363	AND #77	11111111	opcde	950.
+0222	000364	77 operand fetched	11101111	oprnd	1.00
+0223*	000365	ROL Accumulator	11111111	opcde	950.
+0224	000366	2B false read	11100111	fread	1.00
+0225*	000366	PLD	01111111	opcde	950.
+0226	000367	2C false read	01100111	fread	950.
+0227	000367	2C false read	01100111	fread	1.00
+0228	0001FD	00 data read	01110111	read	950.
+0229	0001FE	06 data read	01110111	read	1.00
+0230*	000367	BIT FFFF	01111111	opcde	950.
+0231	000368	FF operand fetched	01101111	oprnd	1.00
+0232	000369	.FF operand fetched	01101111	oprnd	950.
+0233	00FFFF	00 data read	01110111	read	1.00
+0234*	00036A	AND FFFF	01111111	opcde	950.
+0235	00036B	FF operand fetched	11101111	oprnd	1.00
+0236	00036C	FF operand fetched	11101111	oprnd	950.
+0237	00FFFF	00 data read	11110111	read	950.
+0238*	00036D	ROL FFFF	11111111	opcde	1.00
+0239	00036E	FF operand fetched	11101111	oprnd	950.
+0240	00036F	FF operand fetched	11101111	oprnd	1.00
+0241	00FFFF	00 data read	11110111	read	950.
+0242	00FFFF	00 false write	10100111	fwrite	1.00
+0243	00FFFF	00 data written	10110111	write	950.
+0244*	000370	AND FFFFFFFF	11111111	opcde	950.
+0245	000371	FF operand fetched	11101111	oprnd	1.00
+0246	000372	FF operand fetched	11101111	oprnd	950.
+0247	000373	FF operand fetched	11101111	oprnd	1.00
+0248	FFFFFF	00 data read	01110111	read	950.
+0249*	000374	AND (10),Y	01111111	opcde	1.00
+0250	000375	10 operand fetched	01101111	oprnd	950.
+0251	000610	00 data read	01110111	read	1.00
+0252	000611	4D data read	01110111	read	950.
+0253	004D04	00 data read	01110111	read	950.
+0254*	000376	AND (10)	01111111	opcde	1.00

State Listing

Label	ADDR	Apple 6501E InvAsm 1.0	STAT	EXTRA	T1
Base	> [HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXY]	
+0255	000377	10 operand fetched	01101111	oprnd	950.
+0256	000610	00 data read	01110111	read	1.00
+0257	000611	4D data read	01110111	read	950.
+0258	004D00	00 data read	11110111	read	1.00
+0259*	000378	AND (10,S),Y	11111111	opcd	950.
+0260	000379	10 operand fetched	11101111	oprnd	1.00
+0261	000379	10 false read	11100111	fread	950.
+0262	00020E	A0 data read	11110111	read	950.
+0263	00020F	A0 data read	11110111	read	1.00
+0264	00020F	A0 false read	11100111	fread	950.
+0265	00A0A4	54 data read	11110111	read	1.00
+0266*	00037A	BIT 10,X	11111111	opcd	950.
+0267	00037B	10 operand fetched	11101111	oprnd	1.00
+0268	00037B	10 false read	11100111	fread	950.
+0269	000687	00 data read	11110111	read	1.12
+0270*	00037C	AND 10,X	11111111	opcd	1.00
+0271	00037D	10 operand fetched	01101111	oprnd	950.
+0272	00037D	10 false read	01100111	fread	950.
+0273	000687	00 data read	01110111	read	1.00
+0274*	00037E	ROL 10,X	01111111	opcd	950.
+0275	00037F	10 operand fetched	01101111	oprnd	1.00
+0276	00037F	10 false read	01100111	fread	950.
+0277	000687	00 data read	01110111	read	1.00
+0278	000687	00 false write	00100111	fwrt	950.
+0279	000687	00 data written	00110111	write	1.00
+0280*	000380	AND [10],Y	01111111	opcd	950.
+0281	000381	10 operand fetched	11101111	oprnd	950.
+0282	000610	00 data read	11110111	read	1.00
+0283	000611	4D data read	11110111	read	950.
+0284	000612	2E data read	11110111	read	1.00
+0285	2E4D04	2E data read	11110111	read	950.
+0286*	000382	SEC	11111111	opcd	1.00
+0287	000383	39 false read	11100111	fread	950.
+0288*	000383	AND FFFF,Y	11111111	opcd	1.00
+0289	000384	FF operand fetched	11101111	oprnd	950.
+0290	000385	FF operand fetched	11101111	oprnd	950.
+0291	000385	FF false read	11100111	fread	1.00
+0292	010003	0B data read	11110111	read	950.
+0293*	000386	DEC Accumulator	11111111	opcd	1.00
+0294	000387	3B false read	01100111	fread	950.
+0295*	000387	TSC	01111111	opcd	1.00
+0296	000388	3C false read	01100111	fread	950.
+0297*	000388	BIT FFFF,X	01111111	opcd	1.00
+0298	000389	FF operand fetched	01101111	oprnd	950.
+0299	00038A	FF operand fetched	01101111	oprnd	950.
+0300	00038A	FF false read	01100111	fread	1.00
+0301	010076	14 data read	01110111	read	950.
+0302*	00038B	AND FFFF,X	01111111	opcd	1.00
+0303	00038C	FF operand fetched	01101111	oprnd	950.
+0304	00038D	FF operand fetched	11101111	oprnd	1.00
+0305	00038D	FF false read	11100111	fread	950.

State Listing

<1

Label Base >	ADDR [HEX]	Apple 65816 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark.]	XXXXXX	[Instructions]	XXXXXX	[XXXXX]
+0306	010076	54 data read	11110111	read
+0307*	00038E	ROL FFFF,X	11111111	opcde
+0308	00038F	FF operand fetched	11101111	oprnd
+0309	000390	FF operand fetched	11101111	oprnd
+0310	000390	FF false read	11100111	fread
+0311	010076	54 data read	11110111	read
+0312	010076	54 false write	10100111	fwrt
+0313	010076	A9 data written	10110111	write
+0314*	000391	AND FFFFFFF,X	11111111	opcde
+0315	000392	FF operand fetched	11101111	oprnd
+0316	000393	FF operand fetched	11101111	oprnd
+0317	000394	FF operand fetched	01101111	oprnd
+0318	000076	A9 data read	01110111	read
+0319*	000395	EOR (10,X)	01111111	opcde
+0320	000396	10 operand fetched	01101111	oprnd
+0321	000396	10 false read	01100111	fread
+0322	000687	00 data read	01110111	read
+0323	000688	72 data read	01110111	read
+0324	007200	00 data read	01110111	read
+0325*	000397	WDM 00	01111111	opcde
+0326	000398	00 operand fetched	01101111	oprnd
+0327*	000399	EOR 10,S	11111111	opcde
+0328	00039A	10 operand fetched	11101111	oprnd
+0329	00039A	10 false read	11100111	fread
+0330	00020E	A0 data read	11110111	read
+0331*	00039B	CLC	11111111	opcde
+0332	00039C	FB false read	11100111	fread
+0333*	00039C	XCE	11111111	opcde
+0334	00039D	C2 false read	11100111	fread
+0335*	00039D	REP #30	11111101	opcde
+0336	00039E	30 operand fetched	11101101	oprnd
+0337	00039E	30 false read	11100101	fread
+0338*	00039F	LDA #000F	11111001	opcde
+0339	0003A0	0F operand fetched	11101000	oprnd
+0340	0003A1	00 operand fetched	01101000	oprnd
+0341*	0003A2	LDX #0004	01111000	opcde
+0342	0003A3	04 operand fetched	01101000	oprnd
+0343	0003A4	00 operand fetched	01101000	oprnd
+0344*	0003A5	LDY #0004	01111000	opcde
+0345	0003A6	04 operand fetched	01101000	oprnd
+0346	0003A7	00 operand fetched	01101000	oprnd
+0347*	0003A8	SEP #30	01111000	opcde
+0348	0003A9	30 operand fetched	01101000	oprnd
+0349	0003A9	30 false read	01100000	fread
+0350*	0003AA	SEC	11111100	opcde
+0351	0003AB	FB false read	11100101	fread
+0352*	0003AB	XCE	11111101	opcde
+0353	0003AC	44 false read	11100101	fread
+0354*	0003AC	MVP FFE block move	11111111	opcde
+0355	0003AD	EE operand fetched	11101111	oprnd
+0356	0003AE	FF operand fetched	11101111	oprnd

State Listing

Label Base	ADDR [HEX]	Apple 65816 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX
+0357	FF0004	F2 data read	11110111	read
+0358	EE0004	F2 data written	10110111	write
+0359	EE0004	F2 false read	11100111	fread
+0360	EE0004	F2 false read	11100111	fread
+0361*	0003AC	MVP FFEE block move	11111111	opcode
+0362	0003AD	EE operand fetched	11101111	oprnd
+0363	0003AE	FF operand fetched	01101111	oprnd
+0364	FF0003	0B data read	01110111	read
+0365	EE0003	0B data written	00110111	write
+0366	EE0003	0B false read	01100111	fread
+0367	EE0003	0B false read	01100111	fread
+0368*	0003AC	MVP FFEE block move	01111111	opcode
+0369	0003AD	EE operand fetched	01101111	oprnd
+0370	0003AE	FF operand fetched	01101111	oprnd
+0371	FF0002	60 data read	01110111	read
+0372	EE0002	60 data written	00110111	write
+0373	EE0002	60 false read	11100111	fread
+0374	EE0002	60 false read	11100111	fread
+0375*	0003AC	MVP FFEE block move	11111111	opcode
+0376	0003AD	EE operand fetched	11101111	oprnd
+0377	0003AE	FF operand fetched	11101111	oprnd
+0378	FF0001	8E data read	11110111	read
+0379	EE0001	8E data written	10110111	write
+0380	EE0001	8E false read	11100111	fread
+0381	EE0001	8E false read	11100111	fread
+0382*	0003AC	MVP FFEE block move	11111111	opcode
+0383	0003AD	EE operand fetched	11101111	oprnd
+0384	0003AE	FF operand fetched	11101111	oprnd
+0385	FF0000	F2 data read	11110111	read
+0386	EE0000	F2 data written	00110111	write
+0387	EE0000	F2 false read	01100111	fread
+0388	EE0000	F2 false read	01100111	fread
+0389*	0003AC	MVP FFEE block move	01111111	opcode
+0390	0003AD	EE operand fetched	01101111	oprnd
+0391	0003AE	FF operand fetched	01101111	oprnd
+0392	FF00FF	F3 data read	01110111	read
+0393	EE00FF	F3 data written	00110111	write
+0394	EE00FF	F3 false read	01100111	fread
+0395	EE00FF	F3 false read	01100111	fread
+0396*	0003AC	MVP FFEE block move	11111111	opcode
+0397	0003AD	EE operand fetched	11101111	oprnd
+0398	0003AE	FF operand fetched	11101111	oprnd
+0399	FF00FE	0F data read	11110111	read
+0400	EE00FE	0F data written	10110111	write
+0401	EE00FE	0F false read	11100111	fread
+0402	EE00FE	0F false read	11100111	fread
+0403*	0003AC	MVP FFEE block move	11111111	opcode
+0404	0003AD	EE operand fetched	11101111	oprnd
+0405	0003AE	FF operand fetched	11101111	oprnd
+0406	FF00FD	E3 data read	11110111	read
+0407	EE00FD	E3 data written	10110111	write

State Listing

<1

Label>	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]
+0408	EE00FD	E3 false read	11100111	fread
+0409	EE00FD	E3 false read	01100111	fread
+0410*	0003AC	MVP FFEE block move	01111111	opcde
+0411	0003AD	EE operand fetched	01101111	oprnd
+0412	0003AE	FF operand fetched	01101111	oprnd
+0413	FF00FC	0F data read	01110111	read
+0414	EE00FC	0F data written	00110111	write
+0415	EE00FC	0F false read	01100111	fread
+0416	EE00FC	0F false read	01100111	fread
+0417*	0003AC	MVP FFEE block move	01111111	opcde
+0418	0003AD	EE operand fetched	01101111	oprnd
+0419	0003AE	FF operand fetched	11101111	oprnd
+0420	FF00FB	F0 data read	11110111	read
+0421	EE00FB	F0 data written	10110111	write
+0422	EE00FB	F0 false read	11100111	fread
+0423	EE00FB	F0 false read	11100111	fread
+0424*	0003AC	MVP FFEE block move	11111111	opcde
+0425	0003AD	EE operand fetched	11101111	oprnd
+0426	0003AE	FF operand fetched	11101111	oprnd
+0427	FF00FA	0F data read	11110111	read
+0428	EE00FA	0F data written	10110111	write
+0429	EE00FA	0F false read	11100111	fread
+0430	EE00FA	0F false read	11100111	fread
+0431*	0003AC	MVP FFEE block move	11111111	opcde
+0432	0003AD	EE operand fetched	01101111	oprnd
+0433	0003AE	FF operand fetched	01101111	oprnd
+0434	FF00F9	F0 data read	01110111	read
+0435	EE00F9	F0 data written	00110111	write
+0436	EE00F9	F0 false read	01100111	fread
+0437	EE00F9	F0 false read	01100111	fread
+0438*	0003AC	MVP FFEE block move	01111111	opcde
+0439	0003AD	EE operand fetched	01101111	oprnd
+0440	0003AE	FF operand fetched	01101111	oprnd
+0441	FF00F8	0F data read	01110111	read
+0442	EE00F8	0F data written	10110111	write
+0443	EE00F8	0F false read	11100111	fread
+0444	EE00F8	0F false read	11100111	fread
+0445*	0003AC	MVP FFEE block move	11111111	opcde
+0446	0003AD	EE operand fetched	11101111	oprnd
+0447	0003AE	FF operand fetched	11101111	oprnd
+0448	FF00F7	0C data read	11110111	read
+0449	EE00F7	0C data written	10110111	write
+0450	EE00F7	0C false read	11100111	fread
+0451	EE00F7	0C false read	11100111	fread
+0452*	0003AC	MVP FFEE block move	11111111	opcde
+0453	0003AD	EE operand fetched	11101111	oprnd
+0454	0003AE	FF operand fetched	11101111	oprnd
+0455	FF00F6	0F data read	01110111	read
+0456	EE00F6	0F data written	00110111	write
+0457	EE00F6	0F false read	01100111	fread
+0458	EE00F6	0F false read	01100111	fread

State Listing

Label > Base >	ADDR [HEX]	Apple 65816 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0459*	0003AC	MVP FFE0 block move	01111111	opcode
+0460	0003AD	EE operand fetched	01101111	oprnd
+0461	0003AE	FF operand fetched	01101111	oprnd
+0462	FF00F5	F0 data read	01110111	read
+0463	EE00F5	F0 data written	00110111	write
+0464	EE00F5	F0 false read	01100111	fread
+0465	EE00F5	F0 false read	11100111	fread
+0466*	0003AF	EOR 10	11111111	opcode
+0467	0003B0	10 operand fetched	11101111	oprnd
+0468	000610	01 data read	11110111	read
+0469*	0003B1	LSR 10	11111111	opcode
+0470	0003B2	10 operand fetched	11101111	oprnd
+0471	000610	01 data read	11110111	read
+0472	000610	01 false write	10100111	fwrte
+0473	000610	00 data written	10110111	write
+0474*	0003B3	EOR [10]	11111111	opcode
+0475	0003B4	10 operand fetched	11101111	oprnd
+0476	000610	00 data read	11110111	read
+0477	000611	61 data read	11110111	read
+0478	000612	62 data read	01110111	read
+0479	626100	62 data read	01110111	read
+0480*	0003B5	PHA	01111111	opcode
+0481	0003B6	49 false read	01100111	fread
+0482	0001FE	9C data written	00110111	write
+0483*	0003B6	EOR #77	01111111	opcode
+0484	0003B7	77 operand fetched	01101111	oprnd
+0485*	0003B8	LSR Accumulator	01111111	opcode
+0486	0003B9	4B false read	01100111	fread
+0487*	0003B9	PHK	01111111	opcode
+0488	0003BA	4D false read	11100111	fread
+0489	0001FD	00 data written	10110111	write
+0490*	0003BA	EOR FFFF	11111111	opcode
+0491	0003BB	FF operand fetched	11101111	oprnd
+0492	0003BC	FF operand fetched	11101111	oprnd
+0493	EEFFFF	00 data read	11110111	read
+0494*	0003BD	LSR FFFF	11111111	opcode
+0495	0003BE	FF operand fetched	11101111	oprnd
+0496	0003BF	FF operand fetched	11101111	oprnd
+0497	EEFFFF	00 data read	11110111	read
+0498	EEFFFF	00 false write	10100111	fwrte
+0499	EEFFFF	00 data written	10110111	write
+0500*	0003C0	EOR FFFFFF	11111111	opcode
+0501	0003C1	FF operand fetched	01101111	oprnd
+0502	0003C2	FF operand fetched	01101111	oprnd
+0503	0003C3	FF operand fetched	01101111	oprnd
+0504	FFFFFF	00 data read	01110111	read
+0505*	0003C4	EOR (10),Y	01111111	opcode
+0506	0003C5	10 operand fetched	01101111	oprnd
+0507	000610	00 data read	01110111	read
+0508	000611	61 data read	01110111	read
+0509	EE61F4	EE data read	01110111	read

State Listing

Label Base >	ADDR [HEX]	Apple 65816 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0510*	0003C6	EOR (10)	01111111	opcde
+0511	0003C7	10 operand fetched	11101111	oprnd
+0512	000610	00 data read	11110111	read
+0513	000611	61 data read	11110111	read
+0514	EE6100	EE data read	11110111	read
+0515*	0003C8	EOR (10,S),Y	11111111	opcde
+0516	0003C9	10 operand fetched	11101111	oprnd
+0517	0003C9	10 false read	11100111	fread
+0518	00020C	E8 data read	11110111	read
+0519	00020D	A0 data read	11110111	read
+0520	00020D	A0 false read	11100111	fread
+0521	EEA1DC	54 data read	11110111	read
+0522*	0003CA	CLC	11111111	opcde
+0523	0003CB	FB false read	11100111	fread
+0524*	0003CB	XCE	01111111	opcde
+0525	0003CC	C2 false read	01100111	fread
+0526*	0003CC	REP #30	01111101	opcde
+0527	0003CD	30 operand fetched	01101101	oprnd
+0528	0003CD	30 false read	01100101	fread
+0529*	0003CE	LDA #000F	01111001	opcde
+0530	0003CF	0F operand fetched	01101000	oprnd
+0531	0003D0	00 operand fetched	01101000	oprnd
+0532*	0003D1	LDX #FFFD	01111000	opcde
+0533	0003D2	FD operand fetched	01101000	oprnd
+0534	0003D3	FF operand fetched	11101000	oprnd
+0535*	0003D4	LDY #FFFD	11111000	opcde
+0536	0003D5	FD operand fetched	11101000	oprnd
+0537	0003D6	FF operand fetched	11101000	oprnd
+0538*	0003D7	SEP #30	11111000	opcde
+0539	0003D8	30 operand fetched	11101000	oprnd
+0540	0003D8	30 false read	11100000	fread
+0541*	0003D9	SEC	11111100	opcde
+0542	0003DA	FB false read	11100101	fread
+0543*	0003DA	XCE	11111101	opcde
+0544	0003DB	54 false read	11100101	fread
+0545*	0003DB	MVN FFEE block move	11111111	opcde
+0546	0003DC	EE operand fetched	11101111	oprnd
+0547	0003DD	FF operand fetched	01101111	oprnd
+0548	FF00FD	E3 data read	01110111	read
+0549	EE00FD	E3 data written	00110111	write
+0550	EE00FD	E3 false read	01100111	fread
+0551	EE00FD	E3 false read	01100111	fread
+0552*	0003DB	MVN FFEE block move	01111111	opcde
+0553	0003DC	EE operand fetched	01101111	oprnd
+0554	0003DD	FF operand fetched	01101111	oprnd
+0555	FF00FE	0F data read	01110111	read
+0556	EE00FE	0F data written	00110111	write
+0557	EE00FE	0F false read	11100111	fread
+0558	EE00FE	0F false read	11100111	fread
+0559*	0003DB	MVN FFEE block move	11111111	opcde
+0560	0003DC	EE operand fetched	11101111	oprnd

State Listing

Label Base >	ADDR [HEX]	Apple 65016 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[YYYYXX]
+0561	0003DD	FF operand fetched	11101111	oprnd
+0562	FF00FF	F3 data read	11110111	read
+0563	EE00FF	F3 data written	10110111	write
+0564	EE00FF	F3 false read	11100111	fread
+0565	EE00FF	F3 false read	11100111	fread
+0566*	0003DB	MVN FFEE block move	11111111	opcode
+0567	0003DC	EE operand fetched	11101111	oprnd
+0568	0003DD	FF operand fetched	11101111	oprnd
+0569	FF0000	F2 data read	11110111	read
+0570	EE0000	F2 data written	00110111	write
+0571	EE0000	F2 false read	01100111	fread
+0572	EE0000	F2 false read	01100111	fread
+0573*	0003DB	MVN FFEE block move	01111111	opcode
+0574	0003DC	EE operand fetched	01101111	oprnd
+0575	0003DD	FF operand fetched	01101111	oprnd
+0576	FF0001	8E data read	01110111	read
+0577	EE0001	8E data written	00110111	write
+0578	EE0001	8E false read	01100111	fread
+0579	EE0001	8E false read	01100111	fread
+0580*	0003DB	MVN FFEE block move	11111111	opcode
+0581	0003DC	EE operand fetched	11101111	oprnd
+0582	0003DD	FF operand fetched	11101111	oprnd
+0583	FF0002	60 data read	11110111	read
+0584	EE0002	60 data written	10110111	write
+0585	EE0002	60 false read	11100111	fread
+0586	EE0002	60 false read	11100111	fread
+0587*	0003DB	MVN FFEE block move	11111111	opcode
+0588	0003DC	EE operand fetched	11101111	oprnd
+0589	0003DD	FF operand fetched	11101111	oprnd
+0590	FF0003	0B data read	11110111	read
+0591	EE0003	0B data written	10110111	write
+0592	EE0003	0B false read	11100111	fread
+0593	EE0003	0B false read	01100111	fread
+0594*	0003DB	MVN FFEE block move	01111111	opcode
+0595	0003DC	EE operand fetched	01101111	oprnd
+0596	0003DD	FF operand fetched	01101111	oprnd
+0597	FF0004	F2 data read	01110111	read
+0598	EE0004	F2 data written	00110111	write
+0599	EE0004	F2 false read	01100111	fread
+0600	EE0004	F2 false read	01100111	fread
+0601*	0003DB	MVN FFEE block move	01111111	opcode
+0602	0003DC	EE operand fetched	01101111	oprnd
+0603	0003DD	FF operand fetched	11101111	oprnd
+0604	FF0005	09 data read	11110111	read
+0605	EE0005	09 data written	10110111	write
+0606	EE0005	09 false read	11100111	fread
+0607	EE0005	09 false read	11100111	fread
+0608*	0003DB	MVN FFEE block move	11111111	opcode
+0609	0003DC	EE operand fetched	11101111	oprnd
+0610	0003DD	FF operand fetched	11101111	oprnd
+0611	FF0006	EC data read	11110111	read

State Listing

Label > Base >		Apple 65816 InvAsm 1.0 [HEX] [ASM]		STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]		XXXXXXXX	[XXXXX]
+0612	EE0006	EC	data written	10110111	write
+0613	EE0006	EC	false read	11100111	fread
+0614	EE0006	EC	false read	11100111	fread
+0615*	0003DB	MVN	FFEE block move	11111111	opcde
+0616	0003DC	EE	operand fetched	01101111	oprnd
+0617	0003DD	FF	operand fetched	01101111	oprnd
+0618	FF0007	09	data read	01110111	read
+0619	EE0007	09	data written	00110111	write
+0620	EE0007	09	false read	01100111	fread
+0621	EE0007	09	false read	01100111	fread
+0622*	0003DB	MVN	FFEE block move	01111111	opcde
+0623	0003DC	EE	operand fetched	01101111	oprnd
+0624	0003DD	FF	operand fetched	01101111	oprnd
+0625	FF0008	0F	data read	01110111	read
+0626	EE0008	0F	data written	10110111	write
+0627	EE0008	0F	false read	11100111	fread
+0628	EE0008	0F	false read	11100111	fread
+0629*	0003DB	MVN	FFEE block move	11111111	opcde
+0630	0003DC	EE	operand fetched	11101111	oprnd
+0631	0003DD	FF	operand fetched	11101111	oprnd
+0632	FF0009	F0	data read	11110111	read
+0633	EE0009	F0	data written	10110111	write
+0634	EE0009	F0	false read	11100111	fread
+0635	EE0009	F0	false read	11100111	fread
+0636*	0003DB	MVN	FFEE block move	11111111	opcde
+0637	0003DC	EE	operand fetched	11101111	oprnd
+0638	0003DD	FF	operand fetched	11101111	oprnd
+0639	FF000A	0F	data read	01110111	read
+0640	EE000A	0F	data written	00110111	write
+0641	EE000A	0F	false read	01100111	fread
+0642	EE000A	0F	false read	01100111	fread
+0643*	0003DB	MVN	FFEE block move	01111111	opcde
+0644	0003DC	EE	operand fetched	01101111	oprnd
+0645	0003DD	FF	operand fetched	01101111	oprnd
+0646	FF000B	0C	data read	01110111	read
+0647	EE000B	0C	data written.	00110111	write
+0648	EE000B	0C	false read	01100111	fread
+0649	EE000B	0C	false read	11100111	fread
+0650*	0003DB	MVN	FFEE block move	11111111	opcde
+0651	0003DC	EE	operand fetched	11101111	oprnd
+0652	0003DD	FF	operand fetched	11101111	oprnd
+0653	FF000C	00	data read	11110111	read
+0654	EE000C	00	data written	10110111	write
+0655	EE000C	00	false read	11100111	fread
+0656	EE000C	00	false read	11100111	fread
+0657*	0003DE	EOR	10,X	11111111	opcde
+0658	0003DF	10	operand fetched	11101111	oprnd
+0659	0003DF	10	false read	11100111	fread
+0660	00061D	0D	data read	11110111	read
+0661*	0003E0	LSR	10,X	11111111	opcde
+0662	0003E1	10	operand fetched	01101111	oprnd

State Listing

Label>	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA
Base>	[HEX]	[ASM]	[BIN]	[USR]
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]
+0663	0003E1	10 false read	01100111	fread
+0664	00061D	0D data read	01110111	read
+0665	00061D	0D false write	00100111	fwrite
+0666	00061D	06 data written	00110111	write
+0667*	0003E2	EOR [10],Y	01111111	opcode
+0668	0003E3	10 operand fetched	01101111	oprnd
+0669	000610	00 data read	01110111	read
+0670	000611	61 data read	01110111	read
+0671	000612	62 data read	01110111	read
+0672	62610D	62 data read	11110111	read
+0673*	0003E4	CLI	11111111	opcode
+0674	0003E5	78 false read	11100111	fread
+0675*	0003E5	SEI	11111111	opcode
+0676	0003E6	59 false read	11100111	fread
+0677*	0003E6	EOR FFFF,Y	11111111	opcode
+0678	0003E7	FF operand fetched	11101111	oprnd
+0679	0003E8	FF operand fetched	11101111	oprnd
+0680	EE03E8	FF false read	11100111	fread
+0681	EF000C	00 data read	11110111	read
+0682*	0003E9	PHY	11111111	opcode
+0683	0003EA	5D false read	11100111	fread
+0684	0001FC	0D data written	10110111	write
+0685*	0003EA	EOR FFFF,X	01111111	opcode
+0686	0003EB	FF operand fetched	01101111	oprnd
+0687	0003EC	FF operand fetched	01101111	oprnd
+0688	EE03EC	FF false read	01100111	fread
+0689	EF000C	00 data read	01110111	read
+0690*	0003ED	LSR FFFF,X	01111111	opcode
+0691	0003EE	FF operand fetched	01101111	oprnd
+0692	0003EF	FF operand fetched	01101111	oprnd
+0693	EE03EF	FF false read	01100111	fread
+0694	EF000C	00 data read	01110111	read
+0695	EF000C	00 false write	10100111	fwrite
+0696	EF000C	00 data written	10110111	write
+0697*	0003F0	EOR FFFFF,X	11111111	opcode
+0698	0003F1	FF operand fetched	11101111	oprnd
+0699	0003F2	FF operand fetched	11101111	oprnd
+0700	0003F3	FF operand fetched	11101111	oprnd
+0701	00000C	00 data read	11110111	read
+0702*	0003F4	ADC (10,X)	11111111	opcode
+0703	0003F5	10 operand fetched	11101111	oprnd
+0704	0003F5	10 false read	11100111	fread
+0705	00061D	06 data read	11110111	read
+0706	00061E	73 data read	11110111	read
+0707	EE7306	EE data read	11110111	read
+0708*	0003F6	PER 1177 {delta=+0D7E}	01111111	opcode
+0709	0003F7	7E operand fetched	01101111	oprnd
+0710	0003F8	0D operand fetched	01101111	oprnd
+0711	0003F8	0D false read	01100111	fread
+0712	0001FB	11 data written	00110111	write
+0713	0001FA	77 data written	00110111	write

State Listing

Label Base	ADDR [HEX]	Apple 65816 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0714*	0003F9	ADC 10,S	01111111	opcde
+0715	0003FA	10 operand fetched	01101111	oprnd
+0716	0003FA	10 false read	01100111	fread
+0717	000209	00 data read	01110111	read
+0718*	0003FB	STZ 10	11111111	opcde
+0719	0003FC	10 operand fetched	11101111	oprnd
+0720	000610	00 data written	10110111	write
+0721*	0003FD	ADC 10	11111111	opcde
+0722	0003FE	10 operand fetched	11101111	oprnd
+0723	000610	00 data read	11110111	read
+0724*	0003FF	ROR 10	11111111	opcde
+0725	000400	10 operand fetched	11101111	oprnd
+0726	000610	00 data read	11110111	read
+0727	000610	00 false write	10100111	fwrt
+0728	000610	00 data written	10110111	write
+0729*	000401	ADC [10]	11111111	opcde
+0730	000402	10 operand fetched	11101111	oprnd
+0731	000610	00 data read	01110111	read
+0732	000611	61 data read	01110111	read
+0733	000612	62 data read	01110111	read
+0734	626100	62 data read	01110111	read
+0735*	000403	PHA	01111111	opcde
+0736	000404	68 false read	01100111	fread
+0737	0001F9	E1 data written	00110111	write
+0738*	000404	PLA	01111111	opcde
+0739	000405	69 false read	01100111	fread
+0740	000405	69 false read	01100111	fread
+0741	0001F9	E1 data read	11110111	read
+0742*	000405	ADC #77	11111111	opcde
+0743	000406	77 operand fetched	11101111	oprnd
+0744*	000407	ROR Accumulator	11111111	opcde
+0745	000408	6D false read	11100111	fread
+0746*	000408	ADC FFFF	11111111	opcde
+0747	000409	FF operand fetched	11101111	oprnd
+0748	00040A	FF operand fetched	11101111	oprnd
+0749	EEFFFF	00 data read	11110111	read
+0750*	00040B	ROR FFFF	11111111	opcde
+0751	00040C	FF operand fetched	11101111	oprnd
+0752	00040D	FF operand fetched	11101111	oprnd
+0753	EEFFFF	00 data read	11110111	read
+0754	EEFFFF	00 false write	00100111	fwrt
+0755	EEFFFF	00 data written	00110111	write
+0756*	00040E	ADC FFFFFFFF	01111111	opcde
+0757	00040F	FF operand fetched	01101111	oprnd
+0758	000410	FF operand fetched	01101111	oprnd
+0759	000411	FF operand fetched	01101111	oprnd
+0760	FFFFFF	00 data read	01110111	read
+0761*	000412	ADC (10),Y	01111111	opcde
+0762	000413	10 operand fetched	01101111	oprnd
+0763	000610	00 data read	01110111	read
+0764	000611	61 data read	11110111	read

State Listing

Label>	ADDR	Apple 65816 InvHsm 1.0	STAT	EXTRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0765	EE510D	EE data read	11110111	read
+0766*	000414	ADC (10)	11111111	opcode
+0767	000415	10 operand fetched	11101111	oprnd
+0768	000610	00 data read	11110111	read
+0769	000611	61 data read	11110111	read
+0770	EE5100	EE data read	11110111	read
+0771*	000416	ADC (10,S),Y	11111111	opcode
+0772	000417	10 operand fetched	11101111	oprnd
+0773	000417	10 false read	11100111	fread
+0774	000209	00 data read	11110111	read
+0775	00020A	F3 data read	11110111	read
+0776	00020A	F3 false read	11100111	fread
+0777	EEF30D	FF data read	01110111	read
+0778*	000418	STZ 10,X	01111111	opcode
+0779	000419	10 operand fetched	01101111	oprnd
+0780	000419	10 false read	01100111	fread
+0781	00061D	00 data written	00110111	write
+0782*	00041A	ADC 10,X	01111111	opcode
+0783	00041B	10 operand fetched	01101111	oprnd
+0784	00041B	10 false read	01100111	fread
+0785	00061D	00 data read	01110111	read
+0786*	00041C	ROR 10,X	01111111	opcode
+0787	00041D	10 operand fetched	11101111	oprnd
+0788	00041D	10 false read	11100111	fread
+0789	00061D	00 data read	11110111	read
+0790	00061D	00 false write	10100111	fwrte
+0791	00061D	00 data written	10110111	write
+0792*	00041E	ADC [10],Y	11111111	opcode
+0793	00041F	10 operand fetched	11101111	oprnd
+0794	000610	00 data read	11110111	read
+0795	000611	61 data read	11110111	read
+0796	000612	62 data read	11110111	read
+0797	62610D	62 data read	11110111	read
+0798*	000420	ADC FFFF,Y	11111111	opcode
+0799	000421	FF operand fetched	11101111	oprnd
+0800	000422	FF operand fetched	01101111	oprnd
+0801	EE0422	FF false read	01100111	fread
+0802	EF000C	00 data read	01110111	read
+0803*	000423	PHY	01111111	opcode
+0804	000424	7A false read	01100111	fread
+0805	0001F9	0D data written	00110111	write
+0806*	000424	PLY	01111111	opcode
+0807	000425	7B false read	01100111	fread
+0808	000425	7B false read	01100111	fread
+0809	0001F9	0D data read	01110111	read
+0810*	000425	TDC	11111111	opcode
+0811	000426	7D false read	11100111	fread
+0812*	000426	ADC FFFF,X	11111111	opcode
+0813	000427	FF operand fetched	11101111	oprnd
+0814	000428	FF operand fetched	11101111	oprnd
+0815	EE0428	FF false read	11100111	fread

State Listing

Label >	ADDR	Apple 65816 InvAsm 1.0	STAT	E/TRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark.]	XXXXXX	[Instructions]	XXXXXXXX	[Y/XXX]
+0816	EF000C	00 data read	11110111	read
+0817*	000429	ROR FFFF,X	11111111	opcode
+0818	00042A	FF operand fetched	11101111	oprnd
+0819	00042B	FF operand fetched	11101111	oprnd
+0820	EE042B	FF false read	11100111	fread
+0821	EF000C	00 data read	11110111	read
+0822	EF000C	00 false write	10100111	fwrite
+0823	EF000C	00 data written	00110111	write
+0824*	00042C	ADC FFFFFFF,X	01111111	opcode
+0825	00042D	FF operand fetched	01101111	oprnd
+0826	00042E	FF operand fetched	01101111	oprnd
+0827	00042F	FF operand fetched	01101111	oprnd
+0828	00000C	00 data read	01110111	read
+0829*	000430	STA (10,X)	01111111	opcode
+0830	000431	10 operand fetched	01101111	oprnd
+0831	000431	10 false read	01100111	fread
+0832	00061D	00 data read	01110111	read
+0833	00061E	73 data read	11110111	read
+0834	EE7300	00 data written	10110111	write
+0835*	000432	STA 10,S	11111111	opcode
+0836	000433	10 operand fetched	11101111	oprnd
+0837	000433	10 false read	11100111	fread
+0838	000209	00 data written	10110111	write
+0839*	000434	STY 10	11111111	opcode
+0840	000435	10 operand fetched	11101111	oprnd
+0841	000610	0D data written	10110111	write
+0842*	000436	STA 10	11111111	opcode
+0843	000437	10 operand fetched	11101111	oprnd
+0844	000610	00 data written	10110111	write
+0845*	000438	STX 10	11111111	opcode
+0846	000439	10 operand fetched	01101111	oprnd
+0847	000610	0D data written	00110111	write
+0848*	00043A	STA [10]	01111111	opcode
+0849	00043B	10 operand fetched	01101111	oprnd
+0850	000610	0D data read	01110111	read
+0851	000611	61 data read	01110111	read
+0852	000612	62 data read	01110111	read
+0853	62610D	00 data written	00110111	write
+0854*	00043C	DEY	01111111	opcode
+0855	00043D	89 false read	01100111	fread
+0856*	00043D	BIT #77	11111111	opcode
+0857	00043E	77 operand fetched	11101111	oprnd
+0858*	00043F	TXA	11111111	opcode
+0859	000440	8B false read	11100111	fread
+0860*	000440	PHB	11111111	opcode
+0861	000441	8C false read	11100111	fread
+0862	0001F9	EE data written	10110111	write
+0863*	000441	STY FFFF	11111111	opcode
+0864	000442	FF operand fetched	11101111	oprnd
+0865	000443	FF operand fetched	11101111	oprnd
+0866	EEFFFF	0C data written	10110111	write

State Listing

Label Base >	ADDR [HEX]	Apple 65016 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0867*	000444	STA FFFF	11111111	opcd
+0868	000445	FF operand fetched	11101111	oprnd
+0869	000446	FF operand fetched	01101111	oprnd
+0870	EEFFFF	0D data written	00110111	write
+0871*	000447	STX FFFF	01111111	opcd
+0872	000448	FF operand fetched	01101111	oprnd
+0873	000449	FF operand fetched	01101111	oprnd
+0874	EEFFFF	0D data written	00110111	write
+0875*	00044A	STA FFFFFF	01111111	opcd
+0876	00044B	FF operand fetched	01101111	oprnd
+0877	00044C	FF operand fetched	01101111	oprnd
+0878	00044D	FF operand fetched	01101111	oprnd
+0879	FFFFFF	0D data written	10110111	write
+0880*	00044E	STA (10),Y	11111111	opcd
+0881	00044F	10 operand fetched	11101111	oprnd
+0882	000610	0D data read	11110111	read
+0883	000611	61 data read	11110111	read
+0884	EE6119	EE false read	11100111	fread
+0885	EE6119	0D data written	10110111	write
+0886*	000450	STA (10)	11111111	opcd
+0887	000451	10 operand fetched	11101111	oprnd
+0888	000610	0D data read	11110111	read
+0889	000611	61 data read	11110111	read
+0890	EE610D	0D data written	10110111	write
+0891*	000452	STA (10,S),Y	11111111	opcd
+0892	000453	10 operand fetched	01101111	oprnd
+0893	000453	10 false read	01100111	fread
+0894	000208	A0 data read	01110111	read
+0895	000209	00 data read	01110111	read
+0896	000209	00 false read	01100111	fread
+0897	EE00AC	0D data written	00110111	write
+0898*	000454	STY 10,X	01111111	opcd
+0899	000455	10 operand fetched	01101111	oprnd
+0900	000455	10 false read	01100111	fread
+0901	00061D	0C data written	00110111	write
+0902*	000456	STA 10,X	11111111	opcd
+0903	000457	10 operand fetched	11101111	oprnd
+0904	000457	10 false read	11100111	fread
+0905	00061D	0D data written	10110111	write
+0906*	000458	STX 10,Y	11111111	opcd
+0907	000459	10 operand fetched	11101111	oprnd
+0908	000459	10 false read	11100111	fread
+0909	00061C	0D data written	10110111	write
+0910*	00045A	STA [10],Y	11111111	opcd
+0911	00045B	10 operand fetched	11101111	oprnd
+0912	000610	0D data read	11110111	read
+0913	000611	61 data read	11110111	read
+0914	000612	62 data read	11110111	read
+0915	626119	0D data written	00110111	write
+0916*	00045C	TYA	01111111	opcd
+0917	00045D	99 false read	01100111	fread

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0918*	00045D	STA FFFF,Y	01111111	opcde
+0919	00045E	FF operand fetched	01101111	oprnd
+0920	00045F	FF operand fetched	01101111	oprnd
+0921	EEFF0B	FF false read	01100111	fread
+0922	EF000B	0C data written	00110111	write
+0923*	000460	TSX	01111111	opcde
+0924	000461	9A false read	01100111	fread
+0925*	000461	TXS	11111111	opcde
+0926	000462	9B false read	11100111	fread
+0927*	000462	TXY	11111111	opcde
+0928	000463	9C false read	11100111	fread
+0929*	000463	STZ FFFF	11111111	opcde
+0930	000464	FF operand fetched	11101111	oprnd
+0931	000465	FF operand fetched	11101111	oprnd
+0932	EEFFFF	00 data written	10110111	write
+0933*	000466	STA FFFF,X	11111111	opcde
+0934	000467	FF operand fetched	11101111	oprnd
+0935	000468	FF operand fetched	11101111	oprnd
+0936	EEFFF7	00 false read	11100111	fread
+0937	EF00F7	0C data written	10110111	write
+0938*	000469	STZ FFFF,X	01111111	opcde
+0939	00046A	FF operand fetched	01101111	oprnd
+0940	00046B	FF operand fetched	01101111	oprnd
+0941	EE046B	FF false read	01100111	fread
+0942	EF00F7	00 data written	00110111	write
+0943*	00046C	STA FFFFF,X	01111111	opcde
+0944	00046D	FF operand fetched	01101111	oprnd
+0945	00046E	FF operand fetched	01101111	oprnd
+0946	00046F	FF operand fetched	01101111	oprnd
+0947	0000F7	0C data written	00110111	write
+0948*	000470	LDY #77	11111111	opcde
+0949	000471	77 operand fetched	11101111	oprnd
+0950*	000472	LDA (10,X)	11111111	opcde
+0951	000473	10 operand fetched	11101111	oprnd
+0952	000473	10 false read	11100111	fread
+0953	000508	62 data read	11110111	read
+0954	000509	20 data read	11110111	read
+0955	EE2062	0A data read	11110111	read
+0956*	000474	LDX #77	11111111	opcde
+0957	000475	77 operand fetched	11101111	oprnd
+0958*	000476	LDA 10,S	11111111	opcde
+0959	000477	10 operand fetched	11101111	oprnd
+0960	000477	10 false read	11100111	fread
+0961	000208	A0 data read	01110111	read
+0962*	000478	LDY 10	01111111	opcde
+0963	000479	10 operand fetched	01101111	oprnd
+0964	000510	0D data read	01110111	read
+0965*	00047A	LDA 10	01111111	opcde
+0966	00047B	10 operand fetched	01101111	oprnd
+0967	000510	0D data read	01110111	read
+0968*	00047C	LDX 10	01111111	opcde

State Listing

Label > Base >	ADDR [HEX]	Apple 65816 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0969	00047D	10 operand fetched	01101111	oprnd
+0970	000610	0D data read	01110111	read
+0971*	00047E	LDA [10]	11111111	opcde
+0972	00047F	10 operand fetched	11101111	oprnd
+0973	000610	0D data read	11110111	read
+0974	000611	61 data read	11110111	read
+0975	000612	62 data read	11110111	read
+0976	62610D	62 data read	11110111	read
+0977*	000480	TAY	11111111	opcde
+0978	000481	A9 false read	11100111	fread
+0979*	000481	LDA #77	11111111	opcde
+0980	000482	77 operand fetched	11101111	oprnd
+0981*	000483	TAX	11111111	opcde
+0982	000484	AB false read	11100111	fread
+0983*	000484	PLB	11111111	opcde
+0984	000485	AC false read	01100111	fread
+0985	000485	AC false read	01100111	fread
+0986	0001F9	EE data read	01110111	read
+0987*	000485	LDY FFFF	01111111	opcde
+0988	000486	FF operand fetched	01101111	oprnd
+0989	000487	FF operand fetched	01101111	oprnd
+0990	EEFFFF	00 data read	01110111	read
+0991*	000488	LDA FFFF	01111111	opcde
+0992	000489	FF operand fetched	01101111	oprnd
+0993	00048A	FF operand fetched	01101111	oprnd
+0994	EEFFFF	00 data read	11110111	read
+0995*	00048B	LDX FFFF	11111111	opcde
+0996	00048C	FF operand fetched	11101111	oprnd
+0997	00048D	FF operand fetched	11101111	oprnd
+0998	EEFFFF	00 data read	11110111	read
+0999*	00048E	LDA FFFFFF	11111111	opcde
+1000	00048F	FF operand fetched	11101111	oprnd
+1001	000490	FF operand fetched	11101111	oprnd
+1002	000491	FF operand fetched	11101111	oprnd
+1003	FFFFFF	00 data read	11110111	read
+1004*	000492	LDA (10),Y	11111111	opcde
+1005	000493	10 operand fetched	11101111	oprnd
+1006	000610	0D data read	11110111	read
+1007	000611	61 data read	01110111	read
+1008	EE610D	EE data read	01110111	read
+1009*	000494	LDA (10)	01111111	opcde
+1010	000495	10 operand fetched	01101111	oprnd
+1011	000610	0D data read	01110111	read
+1012	000611	61 data read	01110111	read
+1013	EE610D	EE data read	01110111	read

State Listing

Label >	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[YXXXX]
+0000*	000496	LDA (10,S),Y	01111111	opnde
+0001	000497	10 operand fetched	01101111	oprnd
+0002	000497	10 false read	01100111	fread
+0003	000209	00 data read	11110111	read
+0004	00020A	F3 data read	11110111	read
+0005	00020A	F3 false read	11100111	fread
+0006	EEF300	00 data read	11110111	read
+0007*	000498	LDY 10,X	11111111	opnde
+0008	000499	10 operand fetched	11101111	oprnd
+0009	000499	10 false read	11100111	fread
+0010	000610	0D data read	11110111	read
+0011*	00049A	LDA 10,X	11111111	opnde
+0012	00049B	10 operand fetched	11101111	oprnd
+0013	00049B	10 false read	11100111	fread
+0014	000610	0D data read	11110111	read
+0015*	00049C	LDX 10,Y	11111111	opnde
+0016	00049D	10 operand fetched	01101111	oprnd
+0017	00049D	10 false read	01100111	fread
+0018	00061D	0D data read	01110111	read
+0019*	00049E	LDA [10],Y	01111111	opnde
+0020	00049F	10 operand fetched	01101111	oprnd
+0021	000610	0D data read	01110111	read
+0022	000611	61 data read	01110111	read
+0023	000612	62 data read	01110111	read
+0024	62611A	62 data read	01110111	read
+0025*	0004A0	CLV	01111111	opnde
+0026	0004A1	B9 false read	11100111	fread
+0027*	0004A1	LDA FFFF,Y	11111111	opnde
+0028	0004A2	FF operand fetched	11101111	oprnd
+0029	0004A3	FF operand fetched	11101111	oprnd
+0030	EE04A3	FF false read	11100111	fread
+0031	EF000C	00 data read	11110111	read
+0032*	0004A4	TYX	11111111	opnde
+0033	0004A5	BC false read	11100111	fread
+0034*	0004A5	LDY FFFF,X	11111111	opnde
+0035	0004A6	FF operand fetched	11101111	oprnd
+0036	0004A7	FF operand fetched	11101111	oprnd
+0037	EE04A7	FF false read	11100111	fread
+0038	EF000C	00 data read	11110111	read
+0039*	0004A8	LDA FFFF,X	01111111	opnde
+0040	0004A9	FF operand fetched	01101111	oprnd
+0041	0004AA	FF operand fetched	01101111	oprnd
+0042	EE04AA	FF false read	01100111	fread
+0043	EF000C	00 data read	01110111	read
+0044*	0004AB	LDX FFFF,Y	01111111	opnde
+0045	0004AC	FF operand fetched	01101111	oprnd
+0046	0004AD	FF operand fetched	01101111	oprnd
+0047	EEFFFF	00 data read	01110111	read
+0048*	0004AE	LDA FFFFFFF,X	01111111	opnde
+0049	0004AF	FF operand fetched	11101111	oprnd
+0050	000480	FF operand fetched	11101111	oprnd

State Listing

Label>	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]
+0051	0004B1	FF operand fetched	11101111	oprnd
+0052	FFFFFF	00 data read	11110111	read
+0053*	0004B2	CPY #77	11111111	opcde
+0054	0004B3	77 operand fetched	11101111	oprnd
+0055*	0004B4	CMP (10,X)	11111111	opcde
+0056	0004B5	10 operand fetched	11101111	oprnd
+0057	0004B5	10 false read	11100111	fread
+0058	000510	0D data read	11110111	read
+0059	000511	51 data read	11110111	read
+0060	EE610D	EE data read	11110111	read
+0061*	0004B6	CMP 10,S	11111111	opcde
+0062	0004B7	10 operand fetched	01101111	oprnd
+0063	0004B7	10 false read	01100111	fread
+0064	000209	00 data read	01110111	read
+0065*	0004B8	CPY 10	01111111	opcde
+0066	0004B9	10 operand fetched	01101111	oprnd
+0067	000510	0D data read	01110111	read
+0068*	0004BA	CMP 10	01111111	opcde
+0069	0004BB	10 operand fetched	01101111	oprnd
+0070	000510	0D data read	01110111	read
+0071*	0004BC	DEC 10	01111111	opcde
+0072	0004BD	10 operand fetched	11101111	oprnd
+0073	000510	0D data read	11110111	read
+0074	000510	0D false write	10100111	fwrte
+0075	000510	0C data written	10110111	write
+0076*	0004BE	CMP [10]	11111111	opcde
+0077	0004BF	10 operand fetched	11101111	oprnd
+0078	000510	0C data read	11110111	read
+0079	000511	51 data read	11110111	read
+0080	000512	52 data read	11110111	read
+0081	52510C	52 data read	11110111	read
+0082*	0004C0	INY	11111111	opcde
+0083	0004C1	C9 false read	11100111	fread
+0084*	0004C1	CMP #77	11111111	opcde
+0085	0004C2	77 operand fetched	01101111	oprnd
+0086*	0004C3	DEX	01111111	opcde
+0087	0004C4	58 false read	01100111	fread
+0088*	0004C4	CLI	01111111	opcde
+0089	0004C5	CB false read	01100111	fread
+0090*	0004C5	WAI	01111111	opcde
+0091	0004C6	78 false read	01100111	fread
+0092	0004C6	78 false read	01100111	fread
+0093*	0004C6	SEI	01111111	opcde
+0094	0004C6	78 false read	01100111	fread
+0095	0001F9	04 data written	10110111	write
+0096	0001F8	C6 data written	10110111	write
+0097	0001F7	A0 data written	10110111	write
+0098	00FFFE	E4 break emul vpull	11010111	vpull
+0099	00FFFF	02 high byte of vpull	11010111	vpull
+0100*	0002E4	RTI	11111111	opcde
+0101	0002E5	58 false read	11100111	fread

State Listing

<1

Label >	ADDR	Apple 65016 InvAsm 1.0	STAT	EXTRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0102	0002E5	6B false read	11100111	fread
+0103	0001F7	A0 data read	11110111	read
+0104	0001F8	C6 data read	11110111	read
+0105	0001F9	04 data read	11110111	read
+0106*	0004C6	SEI	11111111	opcde
+0107	0004C7	CC false read	11100111	fread
+0108*	0004C7	CPY FFFF	01111111	opcde
+0109	0004C8	FF operand fetched	01101111	oprnd
+0110	0004C9	FF operand fetched	01101111	oprnd
+0111	EEFFFF	00 data read	01110111	read
+0112*	0004CA	CMP FFFF	01111111	opcde
+0113	0004CB	FF operand fetched	01101111	oprnd
+0114	0004CC	FF operand fetched	01101111	oprnd
+0115	EEFFFF	00 data read	01110111	read
+0116*	0004CD	DEC FFFF	01111111	opcde
+0117	0004CE	FF operand fetched	01101111	oprnd
+0118	0004CF	FF operand fetched	11101111	oprnd
+0119	EEFFFF	00 data read	11110111	read
+0120	EEFFFF	00 false write	10100111	furte
+0121	EEFFFF	FF data written	10110111	write
+0122*	0004D0	CMP FFFFFFFF	11111111	opcde
+0123	0004D1	FF operand fetched	11101111	oprnd
+0124	0004D2	FF operand fetched	11101111	oprnd
+0125	0004D3	FF operand fetched	11101111	oprnd
+0126	FFFFFF	FF data read	11110111	read
+0127*	0004D4	CMP (10),Y	11111111	opcde
+0128	0004D5	10 operand fetched	11101111	oprnd
+0129	000610	0C data read	11110111	read
+0130	000611	61 data read	11110111	read
+0131	EE610D	EE data read	01110111	read
+0132*	0004D6	CMP (10)	01111111	opcde
+0133	0004D7	10 operand fetched	01101111	oprnd
+0134	000610	0C data read	01110111	read
+0135	000611	61 data read	01110111	read
+0136	EE610C	EE data read	01110111	read
+0137*	0004D8	CMP (10,S),Y	01111111	opcde
+0138	0004D9	10 operand fetched	01101111	oprnd
+0139	0004D9	10 false read	01100111	fread
+0140	000209	00 data read	01110111	read
+0141	00020A	F3 data read	11110111	read
+0142	00020A	F3 false read	11100111	fread
+0143	EEF301	00 data read	11110111	read
+0144*	0004DA	PEI 10	11111111	opcde
+0145	0004DB	10 operand fetched	11101111	oprnd
+0146	000610	0C data read	11110111	read
+0147	000611	61 data read	11110111	read
+0148	0001F9	61 data written	10110111	write
+0149	0001F8	0C data written	10110111	write
+0150*	0004DC	CMP 10,X	11111111	opcde
+0151	0004DD	10 operand fetched	11101111	oprnd
+0152	0004DD	10 false read	11100111	fread

State Listing

					<1
Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	
Base >	[HEX]	[ASM]	[BIN]	[USR]	
[Mem]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]	
+0153	00060F	79 data read	11110111	read	
+0154*	0004DE	DEC 10,X	01111111	opcdc	
+0155	0004DF	10 operand fetched	01101111	oprnd	
+0156	0004DF	10 false read	01100111	fread	
+0157	00060F	79 data read	01110111	read	
+0158	00060F	79 false write	00100111	fwrt	
+0159	00060F	78 data written	00110111	write	
+0160*	0004E0	CMP [10],Y	01111111	opcdc	
+0161	0004E1	10 operand fetched	01101111	oprnd	
+0162	000610	0C data read	01110111	read	
+0163	000611	61 data read	01110111	read	
+0164	000612	62 data read	11110111	read	
+0165	62610D	62 data read	11110111	read	
+0166*	0004E2	CMP FFFF,Y	11111111	opcdc	
+0167	0004E3	FF operand fetched	11101111	oprnd	
+0168	0004E4	FF operand fetched	11101111	oprnd	
+0169	EE04E4	FF false read	11100111	fread	
+0170	EF0000	F2 data read	11110111	read	
+0171*	0004E5	PHX	11111111	opcdc	
+0172	0004E6	DD false read	11100111	fread	
+0173	0001F7	FF data written	10110111	write	
+0174*	0004E6	CMP FFFF,X	11111111	opcdc	
+0175	0004E7	FF operand fetched	11101111	oprnd	
+0176	0004E8	FF operand fetched	11101111	oprnd	
+0177	EE04E8	FF false read	01100111	fread	
+0178	EF00FE	0F data read	01110111	read	
+0179*	0004E9	DEX	01111111	opcdc	
+0180	0004EA	DE false read	01100111	fread	
+0181*	0004EA	DEC FFFF,X	01111111	opcdc	
+0182	0004EB	FF operand fetched	01101111	oprnd	
+0183	0004EC	FF operand fetched	01101111	oprnd	
+0184	EE04EC	FF false read	01100111	fread	
+0185	EF00FD	E2 data read	01110111	read	
+0186	EF00FD	E2 false write	00100111	fwrt	
+0187	EF00FD	E1 data written	10110111	write	
+0188*	0004ED	CMP FFFFFFF,X	11111111	opcdc	
+0189	0004EE	FF operand fetched	11101111	oprnd	
+0190	0004EF	FF operand fetched	11101111	oprnd	
+0191	0004F0	FF operand fetched	11101111	oprnd	
+0192	0000FD	E1 data read	11110111	read	
+0193*	0004F1	CPX #77	11111111	opcdc	
+0194	0004F2	77 operand fetched	11101111	oprnd	
+0195*	0004F3	SBC (10,X)	11111111	opcdc	
+0196	0004F4	10 operand fetched	11101111	oprnd	
+0197	0004F4	10 false read	11100111	fread	
+0198	00060E	64 data read	11110111	read	
+0199	00060F	78 data read	11110111	read	
+0200	EE7864	EE data read	01110111	read	
+0201*	0004F5	SBC 10,S	01111111	opcdc	
+0202	0004F6	10 operand fetched	01101111	oprnd	
+0203	0004F6	10 false read	01100111	fread	

State Listing

Label > Base >	ADDR [HEX]	Apple 65816 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0204	000206	80 data read	01110111	read
+0205*	0004F7	CPX 10	01111111	opcde
+0206	0004F8	10 operand fetched	01101111	oprnd
+0207	000610	0C data read	01110111	read
+0208*	0004F9	SBC 10	01111111	opcde
+0209	0004FA	10 operand fetched	01101111	oprnd
+0210	000610	0C data read	11110111	read
+0211*	0004FB	INC 10	11111111	opcde
+0212	0004FC	10 operand fetched	11101111	oprnd
+0213	000610	0C data read	11110111	read
+0214	000610	0C false write	10100111	furte
+0215	000610	0D data written	10110111	write
+0216*	0004FD	SBC [10]	11111111	opcde
+0217	0004FE	10 operand fetched	11101111	oprnd
+0218	000610	0D data read	11110111	read
+0219	000611	61 data read	11110111	read
+0220	000612	62 data read	11110111	read
+0221	62610D	62 data read	11110111	read
+0222*	0004FF	INX	11111111	opcde
+0223	000500	E9 false read	01100111	fread
+0224*	000500	SBC #77	01111111	opcde
+0225	000501	77 operand fetched	01101111	oprnd
+0226*	000502	NOP	01111111	opcde
+0227	000503	EB false read	01100111	fread
+0228*	000503	XBA	01111111	opcde
+0229	000504	EC false read	01100111	fread
+0230	000504	EC false read	01100111	fread
+0231*	000504	CPX FFFF	01111111	opcde
+0232	000505	FF operand fetched	01101111	oprnd
+0233	000506	FF operand fetched	11101111	oprnd
+0234	EEFFFF	FF data read	11110111	read
+0235*	000507	SBC FFFF	11111111	opcde
+0236	000508	FF operand fetched	11101111	oprnd
+0237	000509	FF operand fetched	11101111	oprnd
+0238	EEFFFF	FF data read	11110111	read
+0239*	00050A	INC FFFF	11111111	opcde
+0240	00050B	FF operand fetched	11101111	oprnd
+0241	00050C	FF operand fetched	11101111	oprnd
+0242	EEFFFF	FF data read	11110111	read
+0243	EEFFFF	FF false write	10100111	furte
+0244	EEFFFF	00 data written	10110111	write
+0245*	00050D	SBC FFFFFF	11111111	opcde
+0246	00050E	FF operand fetched	01101111	oprnd
+0247	00050F	FF operand fetched	01101111	oprnd
+0248	000510	FF operand fetched	01101111	oprnd
+0249	FFFFFF	00 data read	01110111	read
+0250*	000511	SBC (10),Y	01111111	opcde
+0251	000512	10 operand fetched	01101111	oprnd
+0252	000610	0D data read	01110111	read
+0253	000611	61 data read	01110111	read
+0254	EE610E	EE data read	01110111	read

State Listing

Label/ Base >	ADDR [HEX]	Apple 65816 InvAsm 1.0 [ASM]	STAT [BIN]	EXTRA [USR]
[Merl]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXXX]
+0255*	000513	SBC (10)	01111111	opcdc
+0256	000514	10 operand fetched	11101111	oprnd
+0257	000610	0D data read	11110111	read
+0258	000611	61 data read	11110111	read
+0259	EE610D	EE data read	11110111	read
+0260*	000515	SBC (10,S),Y	11111111	opcdc
+0261	000516	10 operand fetched	11101111	oprnd
+0262	000516	10 false read	11100111	fread
+0263	000206	80 data read	11110111	read
+0264	000207	A0 data read	11110111	read
+0265	000207	A0 false read	11100111	fread
+0266	EEA081	FF data read	11110111	read
+0267*	000517	PEA 1177	11111111	opcdc
+0268	000518	77 operand fetched	11101111	oprnd
+0269	000519	11 operand fetched	01101111	oprnd
+0270	0001F6	11 data written	00110111	write
+0271	0001F5	77 data written	00110111	write
+0272*	00051A	SBC 10,X	01111111	opcdc
+0273	00051B	10 operand fetched	01101111	oprnd
+0274	00051B	10 false read	01100111	fread
+0275	00060F	78 data read	01110111	read
+0276*	00051C	INC 10,X	01111111	opcdc
+0277	00051D	10 operand fetched	01101111	oprnd
+0278	00051D	10 false read	01100111	fread
+0279	00060F	78 data read	11110111	read
+0280	00060F	78 false write	10100111	fwrte
+0281	00060F	79 data written	10110111	write
+0282*	00051E	SBC [10],Y	11111111	opcdc
+0283	00051F	10 operand fetched	11101111	oprnd
+0284	000610	0D data read	11110111	read
+0285	000611	61 data read	11110111	read
+0286	000612	62 data read	11110111	read
+0287	62610E	62 data read	11110111	read
+0288*	000520	SED	11111111	opcdc
+0289	000521	D8 false read	11100111	fread
+0290*	000521	CLD	11111111	opcdc
+0291	000522	F9 false read	11100111	fread
+0292*	000522	SBC FFFF,Y	01111111	opcdc
+0293	000523	FF operand fetched	01101111	oprnd
+0294	000524	FF operand fetched	01101111	oprnd
+0295	EE0524	FF false read	01100111	fread
+0296	EF0000	F2 data read	01110111	read
+0297*	000525	PLX	01111111	opcdc
+0298	000526	FD false read	01100111	fread
+0299	000526	FD false read	01100111	fread
+0300	0001F5	77 data read	01110111	read
+0301*	000526	SBC FFFF,X	01111111	opcdc
+0302	000527	FF operand fetched	11101111	oprnd
+0303	000528	FF operand fetched	11101111	oprnd
+0304	EE0528	FF false read	11100111	fread
+0305	EF0076	A9 data read	11110111	read

State Listing

Label>	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0306*	000529	INC FFFF,X	11111111	opcde
+0307	00052A	FF operand fetched	11101111	oprnd
+0308	00052B	FF operand fetched	11101111	oprnd
+0309	EE052B	FF false read	11100111	fread
+0310	EF0076	A9 data read	11110111	read
+0311	EF0076	A9 false write	10100111	furte
+0312	EF0076	AA data written	10110111	write
+0313*	00052C	SBC FFFFFFF,X	11111111	opcde
+0314	00052D	FF operand fetched	11101111	oprnd
+0315	00052E	FF operand fetched	01101111	oprnd
+0316	00052F	FF operand fetched	01101111	oprnd
+0317	000076	AA data read	01110111	read
+0318*	000530	STP	01111111	opcde
+0319	000531	73 false read	01100111	fread
+0320	730531	73 false read	01100111	fread
+0321	730531	73 false read	01100111	fread
+0322	730531	73 false read	01100111	fread
+0323	730531	73 false read	01100111	fread
+0324	730531	73 false read	01100111	fread
+0325	730531	73 false read	11100111	fread
+0326	730531	73 false read	11100111	fread
+0327	730531	73 false read	11100111	fread
+0328	730531	73 false read	11100111	fread
+0329	730531	73 false read	11100111	fread
+0330	730531	73 false read	11100111	fread
+0331	730531	73 false read	11100111	fread
+0332	730531	73 false read	11100111	fread
+0333	730531	73 false read	11100111	fread
+0334	730531	73 false read	11100111	fread
+0335	730531	73 false read	11100111	fread
+0336	730531	73 false read	11100111	fread
+0337	730531	73 false read	11100111	fread
+0338	730531	73 false read	01100111	fread
+0339	730531	73 false read	01100111	fread
+0340	730531	73 false read	01100111	fread
+0341	730531	73 false read	01100111	fread
+0342	730531	73 false read	01100111	fread
+0343	730531	73 false read	01100111	fread
+0344	730531	73 false read	01100111	fread
+0345	730531	73 false read	01100111	fread
+0346	730531	73 false read	01100111	fread
+0347	730531	73 false read	01100111	fread
+0348	730531	73 false read	11100111	fread
+0349	730531	73 false read	11100111	fread
+0350	730531	73 false read	11100111	fread
+0351	730531	73 false read	11100111	fread
+0352	730531	73 false read	11100111	fread
+0353	730531	73 false read	11100111	fread
+0354	730531	73 false read	11100111	fread
+0355	730531	73 false read	11100111	fread
+0356	730531	73 false read	11100111	fread

65SC816

**Branching
opcodes**

e=0

m=0

x=0

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	T1
Base	[HEX]	[ASM]	[BIN]	[USE]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	XXXXXX	
+0000*	000300	CLC	01111111	opcde	0.
+0001	000301	78 false read	01100111	fread	950.
+0002*	000301	SEI	01111111	opcde	1.00
+0003	000302	D8 false read	01100111	fread	950.
+0004*	000302	CLD	01111111	opcde	1.00
+0005	000303	FB false read	11100111	fread	950.
+0006*	000303	XCE	11111111	opcde	1.00
+0007	000304	C2 false read	11100111	fread	950.
+0008*	000304	REP #30	11111101	opcde	950.
+0009	000305	30 operand fetched	11101101	oprnd	1.00
+0010	000305	30 false read	11100101	fread	950.
+0011*	000306	LDA #0600	11111001	opcde	1.00
+0012	000307	00 operand fetched	11101000	oprnd	950.
+0013	000308	06 operand fetched	11101000	oprnd	1.00
+0014*	000309	TCD	11111000	opcde	950.
+0015	00030A	A9 false read	11100000	fread	1.00
+0016*	00030A	LDA #07FF	11111000	opcde	950.
+0017	00030B	FF operand fetched	11101000	oprnd	950.
+0018	00030C	07 operand fetched	01101000	oprnd	1.00
+0019*	00030D	TCS	01111000	opcde	950.
+0020	00030E	A9 false read	01100000	fread	1.00
+0021*	00030E	LDA #0001	01111000	opcde	950.
+0022	00030F	01 operand fetched	01101000	oprnd	1.00
+0023	000310	00 operand fetched	01101000	oprnd	950.
+0024*	000311	BPL 0316 {delta=+03}	01111000	opcde	1.00
+0025	000312	03 operand fetched	01101000	oprnd	950.
+0026	000313	3A false read	01100000	fread	950.
+0027*	000316	DEC Accumulator	01111000	opcde	1.00
+0028	000317	F0 false read	11100000	fread	950.
+0029*	000317	BEQ 0313 {delta=-06}	11111000	opcde	1.00
+0030	000318	FA operand fetched	11101000	oprnd	950.
+0031	000319	3A false read	11100000	fread	1.00
+0032*	000313	DEC Accumulator	11111000	opcde	950.
+0033	000314	30 false read	11100000	fread	1.00
+0034*	000314	BMI 0319 {delta=+03}	11111000	opcde	950.
+0035	000315	03 operand fetched	11101000	oprnd	950.
+0036	000316	3A false read	11100000	fread	1.00
+0037*	000319	DEC Accumulator	11111000	opcde	950.
+0038	00031A	D0 false read	11100000	fread	1.00
+0039*	00031A	BNE 031F {delta=+03}	11111000	opcde	950.
+0040	00031B	03 operand fetched	11101000	oprnd	1.00
+0041	00031C	38 false read	01100000	fread	950.
+0042*	00031F	CLC	01111000	opcde	1.00
+0043	000320	90 false read	01100000	fread	950.
+0044*	000320	BCC 031C {delta=-06}	01111000	opcde	950.
+0045	000321	FA operand fetched	01101000	oprnd	1.00
+0046	000322	E2 false read	01100000	fread	950.
+0047*	00031C	SEC	01111000	opcde	1.00
+0048	00031D	B0 false read	01100000	fread	950.
+0049*	00031D	BCS 0322 {delta=+03}	01111000	opcde	1.00
+0050	00031E	03 operand fetched	01101000	oprnd	950.

State Listing

Label	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA	<I Ti
Base	[HEX]	[ASM]	[BIN]	[USR]	[Rela]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]	
+0051	00031F	18 false read	11100000	fread	1.00
+0052*	000322	SEP #40	11111000	opcde	960.
+0053	000323	40 operand fetched	11101000	oprnd	1.00
+0054	000323	40 false read	11100000	fread	960.
+0055*	000324	BVS 0328 {delta=+02}	11111000	opcde	960.
+0056	000325	02 operand fetched	11101000	oprnd	1.00
+0057	000326	80 false read	11100000	fread	960.
+0058*	000328	REP #40	11111000	opcde	1.12
+0059	000329	40 operand fetched	11101000	oprnd	1.00
+0060	000329	40 false read	11100000	fread	960.
+0061*	00032A	BVC 0326 {delta=-06}	11111000	opcde	1.00
+0062	00032B	FA operand fetched	11101000	oprnd	960.
+0063	00032C	82 false read	11100000	fread	960.
+0064*	000326	BRA 032C {delta=+04}	01111000	opcde	1.00
+0065	000327	04 operand fetched	01101000	oprnd	960.
+0066	000328	C2 false read	01100000	fread	1.00
+0067*	00032C	BRL 062F {delta=+0300}	01111000	opcde	960.
+0068	00032D	00 operand fetched	01101000	oprnd	1.00
+0069	00032E	03 operand fetched	01101000	oprnd	960.
+0070	00032E	03 false read	01100000	fread	1.00
+0071*	00062F	JSR 06B6	01111000	opcde	960.
+0072	000630	B6 operand fetched	01101000	oprnd	960.
+0073	000631	06 operand fetched	01101000	oprnd	1.00
+0074	000631	06 false read	11100000	fread	960.
+0075	0007FF	06 data written	10110000	write	1.00
+0076	0007FE	31 data written	10110000	write	960.
+0077*	0006B6	RTS	11111000	opcde	1.00
+0078	0006B7	6B false read	11100000	fread	960.
+0079	0006B7	6B false read	11100000	fread	1.00
+0080	0007FE	31 data read	11110000	read	960.
+0081	0007FF	06 data read	11110000	read	960.
+0082	0007FF	06 false read	11100000	fread	1.00
+0083*	000632	JSL FF06B7	11111000	opcde	960.
+0084	000633	B7 operand fetched	11101000	oprnd	1.00
+0085	000634	06 operand fetched	11101000	oprnd	960.
+0086	0007FF	00 data written	10110000	write	1.00
+0087	0007FF	00 false read	01100000	fread	960.
+0088	000635	FF operand fetched	01101000	oprnd	1.00
+0089	0007FE	06 data written	00110000	write	960.
+0090	0007FD	35 data written	00110000	write	960.
+0091*	FF06B7	RTL	01111000	opcde	1.00
+0092	FF06B8	EE false read	01100000	fread	960.
+0093	FF06B8	EE false read	01100000	fread	1.00
+0094	0007FD	35 data read	01110000	read	960.
+0095	0007FE	06 data read	01110000	read	1.00
+0096	0007FF	00 data read	01110000	read	960.
+0097*	000636	JMP 0669	11111000	opcde	1.00
+0098	000637	69 operand fetched	11101000	oprnd	960.
+0099	000638	06 operand fetched	11101000	oprnd	960.
+0100*	000669	JMP FC069D	11111000	opcde	1.00
+0101	00066A	9D operand fetched	11101000	oprnd	960.

State Listing

Label>	ADDR	Apple 65816 InvAsm 1.0	STAT	EXTRA
Base >	[HEX]	[ASM]	[BIN]	[USR]
[Mark]	XXXXXX	[Instructions]	XXXXXXXX	[XXXXX]
+0102	00066B	06 operand fetched	11101000	oprnd
+0103	00066C	FC operand fetched	11101000	oprnd
+0104*	FC069D	JMP (06A0)	11111000	opcde
+0105	FC069E	A0 operand fetched	11101000	oprnd
+0106	FC069F	06 operand fetched	11101000	oprnd
+0107	0006A0	A2 data read	11110000	read
+0108	0006A1	06 data read	11110000	read
+0109*	FC06A2	LDX #0010	11111000	opcde
+0110	FC06A3	10 operand fetched	01101000	oprnd
+0111	FC06A4	00 operand fetched	01101000	oprnd
+0112*	FC06A5	JMP (0698,X)	01111000	opcde
+0113	FC06A6	98 operand fetched	01101000	oprnd
+0114	FC06A7	06 operand fetched	01101000	oprnd
+0115	FC06A7	06 false read	01100000	fread
+0116	FC06A8	AA operand fetched	01101000	oprnd
+0117	FC06A9	06 operand fetched	01101000	oprnd
+0118*	FC06AA	JML (06AD)	01111000	opcde
+0119	FC06AB	AD operand fetched	01101000	oprnd
+0120	FC06AC	06 operand fetched	11101000	oprnd
+0121	0006AD	B0 data read	11110000	read
+0122	0006AE	06 data read	11110000	read
+0123	0006AF	FA data read	11110000	read
+0124*	FA06B0	JSR (06A4,X)	11111000	opcde
+0125	FA06B1	A4 operand fetched	11101000	oprnd
+0126	0007FF	06 data written	10110000	write
+0127	0007FE	B2 data written	10110000	write
+0128	FA06B2	06 operand fetched	11101000	oprnd
+0129	FA06B2	06 false read	11100000	fread
+0130	FA06B4	B6 operand fetched	11101000	oprnd
+0131	FA06B5	06 operand fetched	11101000	oprnd
+0132*	FA06B6	RTS	11111000	opcde
+0133	FA06B7	6B false read	01100000	fread
+0134	FA06B7	6B false read	01100000	fread
+0135	0007FE	B2 data read	01110000	read
+0136	0007FF	06 data read	01110000	read
+0137	0007FF	06 false read	01100000	fread
+0138*	FA06B3	STP	01111000	opcde
+0139	FA06B4	B6 false read	01100000	fread
+0140	B606B4	B6 false read	01100000	fread
+0141	B606B4	B6 false read	01100000	fread
+0142	B606B4	B6 false read	01100000	fread
+0143	B606B4	B6 false read	11100000	fread
+0144	B606B4	B6 false read	11100000	fread
+0145	B606B4	B6 false read	11100000	fread
+0146	B606B4	B6 false read	11100000	fread
+0147	B606B4	B6 false read	11100000	fread
+0148	B606B4	B6 false read	11100000	fread
+0149	B606B4	B6 false read	11100000	fread
+0150	B606B4	B6 false read	11100000	fread
+0151	B606B4	B6 false read	11100000	fread
+0152	B606B4	B6 false read	11100000	fread