Wizardry

by Rob Hall

Requirements:

A Wizardry program
A good sector editor
A scenario disk with six characters
A blank disk to copy your scenario disk

Most veteran wizardry players know that, in "Proving Grounds", if your Bishop successfully "Identifies item number "9", he'll receive 100,000,000 experience points. Also, if he successfully "Identifies "S", the character below the bishop will receive 100,000,000 experience points. And by "Identifing "J", he gives the character below him 100,000,000 gold pieces. This technique allows you to create almost unbeatable characters in "Proving Grounds" and when you transfer your characters to "Knight of Diamonds", they keep their experience and powers. But just when you think you've got all the answers Sir Tech throws you a curve.

Yes, this technique doesn't work with "Legacy of Llylgamyn" and you can't just transfer your characters from a previous scenario, you must perform a "rite of passage". This "rite of passage" creates new characters who are descendants of your characters, but have minimal experience and power. Are all those months, even years, of wandering through dungeons and tunnels, "lost forever"?? Not if you grab your handy sector editor and read on.

The Scenario Disk

In all the Wizardry games, the scenario disk is the key to your adventure. On this disk is stored all the information about the maze, the monsters and your characters. Your character information is usually located on track \$1A, sector \$01 through track \$1B, sector \$0F (track \$1D for "Proving Grounds"). This information is \$CF bytes long and is formatted as follows:

bytes information

00	Number of letters in name
01-0F	Name (15 letters maximum)
10	Number of letters in password
11-1F	Password (15 letters maximum)
20	(\$01) character is "on expedition"
	(\$00) character is available
22	Race: see Table I

24 26-27 28	Life; (\$00) character is OK. (\$05) indicates character is dead.
2A 2C-2F	(\$07) indicates character is lost Alignment; see Table IV Characteristics; (\$52 4A 52 4A is perfect)
34-38 3A 3C-7B 7C-80	Gold: see Table V # of pieces of equipment (8 max) Equipment information: see Table VI
82 84 86-87	Last level of character Current level of character # of hit points character has
88-89 8A-91 92 94	Type of spells: see Table VII # of level 1 mage spells can cast
96 98 9A 9C 9E	2 3 4 5
AØ A2 A4 A6	# of level 1 priest spells can cast 2 3 4 5 6
A8 AA AC	7
AE-AF 80-81 86-8F CE-CF	Last armor class Current armor class Measures effect of weapons & items Indicates honors

Now that you know how your character is formatted, it's time to turn your wimp into a wizard.

Using the Sector Editor

Before creating your new character, you should make backup copy of your scenario disk. The scenario disk is not copy protected so you can use COPYA or any fast copy program to duplicate it. To get the most out of this procedure, I recommend that your scenario disk contains at least six characters you would like to strengthen.

For a start, read track \$1A or \$1B (\$1D for proving grounds) to do some investigation work. The location of your character within a sector or track will vary depending on the sequence that your characters were created on the disk. However, it is easy to find the beginning of your character's information by looking for the flashing ASCII representation

Table I 01 Human 02 Elf 03 Dwarf 04 Gnome 05 Hobbit

of your character's name. This will be the first line of information, bytes \$01 to \$0F (remember that byte \$00 is the number of letters in your character's name).

If you're lucky, your character's information will start at the start of a sector. However, it is more likely that your character's information will start in the middle of a sector. This is because each character's information block is only SCF bytes long and new characters are added immediately after old characters. If your character does not start at byte 0 of a sector, count bytes starting with the byte to the left of your character's name (starting at 0) and use the chart to find the feature you want changed.

	Table II
00	Fighter
01	Mage
02	Priest
03	Thief
04	Bishop
05	Samurai
06	Lord
07	Ninja

Unfortunately, the character's information is usually not ordered in sequential sectors (starting with sector \$1 and finishing in sector \$2). It is usually in reverse order (starting with sector \$F and finishing in sector \$E) or may jump from the beginning of a track to the end. Careful attention to the length of each character's information block and a little trial and error can solve this problem.

The Little Fix

Along with the literature Sir Tech provides with its program, a note warns of tampering with the characters: "While it may seem appealing to use these products (cheat programs), we urge you not to succumb to the temptation. It took more than four years of careful adjustment to properly balance Wizardry." Well, it took me all of last summer

Table III

Age is calculated using bytes \$26 and \$27 under the following formula: [(\$26) / \$34] + [(\$27) X 5] = years of character (decimal) Therefore, if \$26 and \$27 are \$DØ and

Therefore, if \$26 and \$27 are \$D0 and \$04 respectively; your character's age is 24.

to get through "Proving Grounds" even using the bishop trick. If these games are really balanced, those dungeon monsters sure weigh a lot. In fact, I was quite surprised at the number of items I never came across when I played Proving Grounds and Knight of Diamonds the normal and laborious way. Wouldn't it be nice to use a "great mage wand" for a change?

Anyway, for those afraid to upset the proper balance of a Wizardry game, may I suggest the "little fix":

change the gold bytes (\$34-38) to "00 00
 00 01 00"
 change the experience bytes (\$7C-80) to "00 00 00 01 00"
 take your character to the "Adventurer's Inn" and have him "rest" there several times.

This method will allow your character to progress normally, learning and acquiring normal spells and powers. It will also give him enough hit points to survive most levels. In addition, you now have the money to buy the items you want from Boltac's Trading Post.

		Table	I
01	Good		
02	Neutral		
03	Evil		

Table V

Gold is calculated by bytes \$34 to \$38 using the following formula:

byte	\$34.	1st	nybble:	16's place
				1's place
byte	\$35.	1st	nybble:	4,096's place
		2nd	nybble:	256's place
byte	\$36.	1st	nybble:	160.000's place
2		2nd	nybble.	10.000's place
byte	\$37.	1st	nybble:	40.960,000's place
		2nd	nybble:	2,560,000's place
byte	\$38.	151	nybble:	1,600.000.000's place
		2nd	nybble:	100,000,000's place
	Expe	rienc	e is calc	ulated in the same
wa	y by	byte	s S7C to	\$80.

The Super Lord

And for those who have no mercy for monsters and the creatures of the dungeon, I suggest the creation of a "super lord":

change the class byte (\$24) to "06"
change age bytes (\$26-27) to "00 04"
insure life byte (\$28) is "00"
insure alignment byte (\$2A) is "01"
change the characteristic bytes (\$2C-2F) to "52 4A 52 4A"
change the gold bytes (\$34-38) to "00 00 00 00 01"
change equipment possession byte (\$3A) to "08"
equip the character with eight items as explained in Table VI

Table VI

Each piece of equipment is represented by an eight byte string. The string contains the following:

```
byte 1: status of possession ($00 = unequiped, $01 = equiped)
byte 2: not used
byte 3: not used
byte 4: not used
byte 5: status of equipment ($00 = unidentified, $01 = identified)
byte 6: not used
byte 7 and 8: actual equipment
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When giving a character a piece of equipment; insure all "not used" bytes are \$00, set byte #1 to \$00 (unequiped), byte #5 to \$01 (identified), and bytes #7-#8 as follows:

Proving Grounds Of The Mad Overlord

7/8		7/8		7/8	
Byte	Equipment	Byte	Equipment	Byte Equipment	
0100	Long Sword	0200	Short Sword	0300 Anointed	Mace
0400	Anointed Flail	0500	Staff	0600 Dagger	
0700	Small Shield	0800	Large Shield	0900 Robes	
0A00	Leather Armor	ØBØØ	Chain Mail	0000 Breast Pl	ate
9000	Plate Mail	0E00	Helm	0F00 Dios Potis	on
1000	Latumofis Pot	1100	Long Sword + 1	1200 Short Swo	rd + 1
1300	Mace + 1	1400	Staff of Mogref	1500 Scroll/Ka	tino
1600	Leather + 1	1700	Chain Mail + 1	1800 Plate Mai	+ 1
1900	Shield + 1	1400	Breast Plate + 1	1800 Scroll/Bar	dios
1000	Scroll/Halito	1000	Long Sword - I	1E00 Short Swo	rd - 1
1F00	Mace - 1	2000	Staff + 2	2100 Dragon Si	ayer
2200	Helm + 1	2300	Leather - 1	2400 Chain - 1	3
2500	Breast Plate - 1	2600	Shield - 1	2700 Jeweled Ar	nulet
2800	Scroll/Badios	2900	Potion of Sopic	2A00 Long Swore	1 + 2
2800	Short Sword + 2	2000	Mace + 2	2000 Scroll/Lor	nilwa
2EØØ	Scroll/Dilto	2F00	Copper Gloves	3000 Leather +	2
3100	Chain + 2	3200	Plate Mail + 2	3300 Shield + 2	2
3400	Helm + 2 (evil)	3500	Potion of Dial	3600 Ring of Po	orfic
3700	Were Slayer	3800	Mage Masher	3900 Mace Pro 1	Poison
3AØ8	Staff/Montino	3800	Blade Cusinart'	3000 Amulet/Mar	nifo
3DØ0	Rod of Flame	3E00	Evil Chain + 2	3F00 Neut P-Ma	11 + 2
4000	Evil Shield + 3	4100	Amulet/Makanito	4200 Diadem of	Malor
4300	Scroll/Badial	4400	Short Sword - 2	4500 Dagger + 2	2
4600	Mace -2	4700	Staff - 2	4800 Dagger of	Speed
4900	Cursed Robe	4A00	Leather - 2	4800 Chain - 2	
4000	Breast Plate - 2	4DØØ	Shield - 2	4E00 Cursed He	met
4F00	Breast Plate + 2	5000	Silver Gloves	5100 Evil Sword	1 + 3
5200	Evil Ssword + 3	5300	Thieves Dagger	5400 Breast Pla	ste +3
5500	Lords Garb	5600	Murasama Blade	5700 Shuriken	

• change the experience bytes (\$7C-80) to

"00 00 00 00 01" • change level bytes (\$82)
and (\$84) to "60" • change status bytes
(\$86-87) to "00 03" • change hits bytes
(\$88-89) to "00 03" • change spell type bytes
(\$8A-91) to "FE FF FF FF FF FF FF 07" •
change spell bytes (\$92-AC) to "09 00 09 00
09 00 09 00. etc." • equip your lord in

"camp" or at "Gigamesh's Tavern" This
will give you a "super being" which will defeat
all your foes, if you play your "spells" right!

Other Uses

There are quite a few other uses for your sector editor. For instance, Sir Tech will charge you \$15.00 to delete a password you have forgotten. Now all you have to do is to insert

\$00 from bytes \$10 to \$1F to delete your password or better yet, just look at these bytes to see your password.

If you have a power failure or you accidentally press reset while you're playing Wizardry, your character's record on the disk will be logged as "on expedition". Normally, you would not be able to use your character until you recovered it using the utility recover program. Now you may recover your character on your own by placing a "\$00" in byte \$20.

If you own Legacy of Llylgamyn and have always had less then twenty characters on your scenerio disk you will be in for a surprise. As you examine the character information sectors, you are likely to find many ghosts of past

5800	Chain Pro Fire	5900	Evil Plate + 3	5A00	Shield + 3
5800	Ring of Healing	5000	Ring Pro Undead		Deadly Ring
5E00	Werdna's Amulet	5F00	Statuette/Bear	6000	Statuette/Frog
6100	Bronze Key	6200	Silver Key	6300	Gold Key
6400	Rive Ribbon		- St. III - St. III - St. III - St. III		The world was a second

Knight of Diamonds

Same as "proving grounds" with the following exceptions:

7/8		7/8		7/8
Byte	Equipment	Byte	Equipment B	Byte Equipment
5E00	Rod of Raising	5F00	Amulet of Cover	6000 Robe + 3
6100	Winter Mittens	6200	Nklc. Pro. Magic	6300 Staff of Light
6400	Long Sword + 5	6500	Swd./Swinging	6600 Priest Puncher
6700	Priest's Mace	6800	ShSwd /Swinging	6900 Ring Pro Fire
6A00	Cursed + 1 Plate	6800	Plate + 5	6000 Staff of Curing
6DØØ	Ring of Regen	6EØØ	Metamorph Ring	6F00 Stone Stone
7000	Dreamer's Stone	7100	Damien Stone	7200 Great Mage Wand
7300	Coin of Power	7400	Stone of Youth	7500 Mind Stone
7600	Stone of Piety	7700	Blarney Stone	7800 Amulet of Skill
7900	Amulet of Skill	7A00	Great Mage Wand	7800 Coin of Power
7000	Staff of Gnilda	7000	Hrathnir	7E00 Kod's Helmet
7F00	Kod's Shield	8000	Kod's Gauntlets	8100 Kod's Armor

Legacy Of Llylgamyn

7/8		7/8		7/8	
Byte	Equipment	Byte	Equipment	Byte	Equipment
0104	Haubeck	0204	Breast Plate	0304	Plate Armor
0404	Sallet	0504	Potion of Dios	0604	Latumofis Oil
0704	Short Sword + 1	0804	Broadsword + 1	0904	Mace + 1
ØAØ4	Battle Axe + 1	ØBØ4	Nunchaka	ØCØ4	Dagger + 1
ØDØ4	Katino Scroll	ØEØ4	Cuirass + 1		Hauberk + 1
1004	Breastplate + 1	1104	Plate Armor + 1	1204	Heater + 1
1304	Bascinet	1404	Iron Gloves	1504	Badios Scroll
1604	Halito Potion	1704	Short Sword - 1	1804	Broadsword -1
1904	Mace - 1	1AØ4	Dagger - 1	1804	Battle Axe - 1
1CØ4	Margauz's Flail	1004	Bag of Gems		Wizard's Staff
1FØ4	Flametougue	2004	Round Shield - 1	2104	Cuirass - 1
2204	Hauberk - 1	2304	Breastplate - 1	2404	Plate Armor - 1
2504	Sallet - 1	2604	Sopic Philtre	2704	Gold Ring
2804	Salamander Ring	2904	Serpent's Tooth	2AØ4	Short Sword + 2
2804	Broadsword + 2	2CØ4	Battle Axe + 2	2004	Ivory Dagger
2EØ4	Ebony Dagger	2FØ4	Amber Dagger	3004	Mace + 2
3104	Mithril Gloves	3204	Dialko Amulet	3304	Cuirass + 2
3404	Heater + 2	3504	Displacer Robes		Hauberk + 2
3704	Breastplate + 2	3804	Plate Armor + 2	3904	Armet
3A04	Wargan robes	3BØ4	Giant's Club	3CØ4	Blade Cuisinart
3004	Shepherd Crook	3EØ4	Unholy Axe	3FØ4	
4004	Gem of Exorcism	4104	Bag of Emeralds	4204	CONTRACTOR OF THE PROPERTY OF
4304	Blue Pearl	4404	Ruby Slippers		Necrology Rod
4604	Book of Life	4704	Book of Death		Dragon's Tooth
4904	Trollkin Ring	4AØ4	Rabbit's Foot		Thief's Pick
4004	Book of Demons	4DØ4	Butterfly Knife		Gold Tiara
4FØ4	Mantis Gloves	FFØ3	Mage's Robe		Heater Shield
FDØ3	Round Shield	FCØ3	Flail		Dagger
FAØ3	Battle Axe	F903	Hand Axe		Staff
F703	Mace	F603	Broadsword		Short Sword
F403	Butterfly Knife	F303	Orb of Mhuuzfis	GH, FESTANGE	Gold Medallion
F103	Rod of Fire	FØØ3	Holy Water		Amulet of Air
EE03	Staff of Earth	ED03	Ship in Bottle		Crystal of Good
EBØ3	Crystal of Evil	EAØ3	Neutral Crystal	E9Ø3	Orb of Earithin
E803	Broken Item				

Once your characters have the proper equipment, they can "equip" themselves in "camp" or at "Gigamesh's Tavern."

explorers. No one is sure where they came from! These characters are usually "lost" (byte \$28 is "\$07") and may have "\$00" in byte \$00 (number of letters in name). To resurrect these explorers, place a "\$00" in byte \$28 and place a hex number corresponding to the number of letters in the explorer's name in byte \$00. Be careful with these characters. I wouldn't trust a character named "6502."

Table VII

The type of spells a character can cast is determined by bytes \$8A to \$90.

bytes: \$8A 8B 8C 8D 8E 8F 90
all spells: FE FF FF FF FF FF 07
all mage spells: FE FF 3F 00 00 00 00
all priest spells: 00 00 C0 FF FF FF 07

Each bit in these bytes represents a type of spell. If the bit is on ("1"), that spell is known by the character. Don't forget that in order for a character to cast a spell, he must have "spells left" in that level. The "spells left" are indicated in bytes \$92-\$AD.

Mage Spells

byte 8A	byte 8B	byte 8C
bit 0:not used	0:MOLITO	0:ZILWAN
1:HALITO	1: MORLIS	1:MASOPIC
2:MOGREF	2:DALTO	2 :HAMAN
3:KATINO	3: LAHALITO	3:MALOR
4: DUMAPIC	4: MAMORLIS	4 MAHAMAN
5:DILTO	5: MAKANITO	5:TILTOWAIT
6:SOPIC	6: MADALTO	
7:MAHALITO	7: LAKANITO	7:pst spell

Priest Spells

	* * * * *	rear opens	
bit	byte 8C 0 not used 1:mage spell 2:mage spell 3:mage spell 4:mage spell 5:mage spell 6:KALKI 7:DIOS	0 BADIOS 1 MILWA 2 PORFIC 3 MATU 4 CALFO 5 MANIFO	0:ZILWAN 1:DIALKO 2:LATUMAPIC 3:BAMATU 4:DIAL 5:BADIAL 6:LATUMOFIS
	Ø DIALMA 1 BADIALMA 2 LITOKAN 3 KANDI 4 DI	byte 90 0:MABADI 1:LOKTOFEIT 2:MALIKTO 3:KADORTO 4:not used 5:not used 6:not used	

A character with all "spells left" is indicated on the status screen as:

7:not used

MAGE 9/9/9/9/9/9 PRIEST 9/9/9/9/9/9

7: MAD1

and we find bytes \$92 to \$AC are:

byte:

92 93 94 95 96 97 98 99 9A 9B 9C 9D 9E 9F value:

09 00 09 00 09 00 09 00 09 00 09 00 09 00 byte:

AØ A1 A2 A3 A4 A5 A6 A7 A8 A9 AA AB AC value:

09 00 09 00 09 00 09 00 09 00 09 00 09

