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0  'ADVENTURE SOURCE -----
1  SET40960,49151:WRT0:OPZ1,0:WRITE"C0:ADVENTURE,P,W"
2  BAS2049:PASS1:BYT11,8,0,0,158,50,48,54,49,0,0,0:JMP+START
3  +SND1=16384:+SND2=16385:+SND3=16386:+SND4=16387:+SND5=16388:+SOUND=16389
9  '-----
10 +INITIALIZE LDA#1:STA+GAME
11 LDA#2:STA+ROOM:JSR+SETUPROOM:LDA#2:STA+KNXL:LDA#5:STA+KNXH:LDA#0:STA+KNYL
12 LDA#10:STA+KNYH:JSR+POSITIONKNIGHT:LDA#255:STA+INVENTORY:LDA#0:STA+WINGS
13 LDX#0:+IN1 LDA#24:STA+GATEPOS,X:LDA#0:STA+GATEDIR,X:INX:CPX#3:BNE+IN1
14 LDA#2:STA+SHAPE:STA+SHAPE+1:STA+SHAPE+2:LDA#5:STA+SHAPE+3:JSR+RANDOMIZE
15 LDX#0:+IN2 LDA#3:STA+MOUTH,X:LDA#0:STA+DRAGX,X:STA+DRAGY,X:LDA54299:AND#7
16 STA+DRAGD,X:NOP:NOP:NOP:NOP:NOP:NOP:LDA54299:ORA#64:STA+DRAGT,X:INX:CPX#3
17 BNE+IN2:JSR+CHANGEBDIR:LDA#255:STA+BATOBJECT:LDA54299:ORA#128:STA+TAKETIMER
18 LDA#255:STA+EATEN:LDA#0:STA+FLASH:RTS:+GAME BYT0
19 '-----
20 +START JSR+SETUPSPRITES:LDA#0:STA+MODE
21 LDX#0:+ST1 LDA#3:STA51200,X:STA51456,X:STA51712,X:STA51944,X:LDA#3
22 STA52224,X:STA52480,X:STA52736,X:STA52968,X:LDA#8:STA55296,X:STA55552,X
23 STA55808,X:STA56040,X:INX:CPX#0:BNE+ST1:LDA#0:STA53283
24 LDX#0:+ST2 LDA+WORDS,X:STA52160,X:STA53184,X:INX:CPX#39:BNE+ST2:JMP+RESTART
25 :
26 +WORDS BYT4,5,6,7,8,9,10,11,7,2,2,2,12,13,15,16,17,4,18,17,2,12,14,15,19,20
27 BYT21,2,22,4,23,20,2,24,15,25,26,27,17
28 :
29 +RESTART LDA#0:STA+SND1:STA+SND2:STA+SND3:STA+SND4:STA+SND5
30 JSR+SETUPSOUND:LDX#0:LDA#9:+RS0 STA56256,X:INX:CPX#39:BNE+RS0
31 LDA#39:STA+WX:LDA#24:STA+WY:LDA+GAME:BNE+RS1:JSR+INITIALIZE
32 +RS1 JSR+DRAWSCREEN:JSR+DRAWFENCE:JSR+DRAWOBJECTS:JSR+SHOWSCREEN
33 LDA#27:STA53265:JSR+DRAWKNIGHT:JSR+DRAWGATE:JSR+DRAWMONSTERS:JSR+DEAD
34 +RS2 JSR65508:CPH#"+":BNE+RS3:JMP+END:+RS3 CPH#"=":BNE+RS4:JSR+INITIALIZE
35 JMP+RS1:+RS4 CPH#"=":BNE+RS2:LDX#0:LDA#8:+RS5 STA56256,X:INX:CPX#39:BNE+RS5
36 JMP+LOOP
37 '-----
38 +CHANGEBDIR LDA54299:AND#7:STA+BATDIR:NOP:NOP:NOP:NOP:NOP:LDA54299:ORA#64
39 STA+BATTIMER:RTS
40 '-----
41 +LOOP LDA#0:STA162
42 JSR+DRAWSCREEN:JSR+DRAWFENCE:JSR+HAVEOBJECT:JSR+MAGNET:JSR+DRAWOBJECTS
43 JSR+SHOWSCREEN:JSR+DRAWKNIGHT:JSR+KEYS:JSR+MOVEGATES:JSR+DRAWGATE
44 JSR+MOVEWINGS:JSR+DRAWMONSTERS:JSR+SWORD:JSR+DRAGONATTACK:JSR+DEAD
45 JSR+DROP OBJECT:JSR+MOVEKNIGHT:JSR+MOVEDRAGONS:JSR+MOVEBAT
46 +LOOP0 LDA162:SEC:SBC#2:BCC+LOOP0:JSR+SOUND:JSR65508:CPH#"+"
47 BNE+LOOP1:JMP+RESTART:+LOOP1 CPH#"G":BNE+LOOP:LDA+EATEN:CPH#255:BEQ+LOOP
48 LDA#2:STA+ROOM:JSR+SETUPROOM:LDA#2:STA+KNXL:LDA#5:STA+KNXH:LDA#0:STA+KNYL

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58 LDA#10:STA+KNYH:JSR+POSITIONKNIGHT:LDA#255:STA+EATEN:JMP+LOOP
59 /-----
60 +END
61 LDA#0:STA53269:LDA#1:STA646:LDX#0:+END1 STA55296,X:STA55552,X:STA55808,X
62 STA56040,X:INX:CPX#0:BNE+END1:LDA#63:STA56578:LDA#151:STA56576:LDA#21
63 STA53272:LDA#200:STA53270:LDA#14:STA53280:LDA#6:STA53281:RTS
79 /-----
80 +SETUPSOUND LDA#0:LDX#0:+SETS STA54272,X:INX:CPX#25:BNE+SETS
81 LDA#255:STA54287:LDA#129:STA54290:LDA#15+128:STA54296
82 LDA#10:STA54277:LDA#24:STA54275:LDA#10:STA54284:LDA#24:STA54282:RTS
99 /-----
100 +DROPOBJECT LDA56320:AND#16:BNE+DROB:LDA+INVENTORY:CMPI#255:BEQ+DROB:LDA#255
101 STA+INVENTORY:LDA#5:STA+SND2:+DROB RTS
109 /-----
110 +DRAWSCREEN SEI:LDA#53:STA1:LDA+ML:STA3:LDA+MH:STA4:LDA#0:STA5:LDA#204:SEC
111 SBC+MODE:STA6:LDA#0:STA7:STA8:LDX+PXL:LDA+PXH:STA9:LDA+PYL:STA10
112 :
113 +DSA1 LDY9:LDA(3),Y:LDY7:CMPI#32:BEQ+DSB1:LDA#1:+DSA2 STA(5),Y:INY:CPY+WX
114 BEQ+ENDLINE:INX:CPX+SX:BNE+DSA2:BEQ+DSA3:+DSB1 LDA#0:+DSB2 STA(5),Y:INY
115 CPY+WX:BEQ+ENDLINE:INX:CPX+SX:BNE+DSB2:+DSA3 STY7:LDX#0:INC9:LDA9:CMPI#X
116 BNE+DSA1:LDA#0:+DSA4 STA(5),Y:INY:CPY+WX:BNE+DSA4:+ENDLINE LDA#0:STA7:INC8
117 LDA8:CMPI#WY:BNE+EL1:LDA#55:STA1:CLI:RTS:+EL1 LDA5:CLC:ADCH40:STA5
118 LDA6:ADCH#0:STA6:LDX+PXL:LDA+PXH:STA9:INC10:LDA10:CMPI#SY:BNE+DSA1:LDA#0
119 STA10:LDA3:CLC:ADC+NX:STA3:LDA4:ADCH#0:STA4:JMP+DSA1
120 :
130 +PXL BYT0:+PXH BYT0:+PYL BYT0:+PYH BYT0:+PX BYT0:+PY BYT0
149 /-----
150 +DRAWFENCE LDA+ROOM:CMPI#9:BEQ+DF1:CMPI#10:BNE+DF3:+DF1 LDA+PXH:CMPI#0:BNE+DF3
151 LDA+PXL:CMPI#0:BNE+DF2:LDA#1:STA3:JMP+DRAWF:+DF2 CMPI#1:BNE+DF6:LDA#0:STA3
152 JMP+DRAWF
153 :
154 +DF3 LDA+ROOM:CMPI#9:BEQ+DF4:CMPI#11:BNE+DF6:+DF4 LDA+PXH:CMPI#XH:BNE+DF6
155 LDA+PXL:CMPI#1:BNE+DF5:LDX+WX:DEX:DEX:STX3:JMP+DRAWF:+DF5 CMPI#0:BNE+DF6
156 LDX+WX:DEX:STX3:JMP+DRAWF:+DF6 RTS
157 :
160 +DRAWF LDA#204:SEC:SBC+MODE:STA4:LDX#0:+DRAWF1 LDA#2:LDY#0:STA(3),Y:LDA3
161 CLC:ADCH40:STA3:LDA4:ADCH#0:STA4:INX:CPX+WY:BNE+DRAWF1:RTS
169 /-----
170 +DRAWCHAR LDA+CHAR:BEQ+DCEND
171 LDA+OX:SEC:SBC+PX:BCC+DCEND:STA3:LDA+WX:SEC:SBCH1:SEC:SBC3:BCC+DCEND
172 LDA+OY:SEC:SBC+PY:BCC+DCEND:STA4:LDA+WY:SEC:SBCH1:SEC:SBC4:BCC+DCEND
173 :
180 LDA#0:STA5:LDA#204:SEC:SBC+MODE:STA6:LDX4:LDA5:CLC:ADC+YOFFL,X:STA5:LDA6
181 ADCH#0:CLC:ADC+YOFFH,X:STA6:LDY3:LDA(5),Y:BEQ+DC1:CMPI#1:BNE+DCEND:LDA+CHAR

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182 CLC:ADCH#64:BCC+DC2:+DC1 LDA+CHAR:+DC2 STA(5),Y:LDA6:ORAH#4:CLC:ADCH#12:STA6
183 LDA+COLOR:STA(5),Y:+DCEND RTS
184 :
190 +YOFFL:FORZ=0T024*40STEP40:BYT(Z-INT(Z/256)*256):NEXTZ
191 +YOFFH:FORZ=0T024*40STEP40:BYT(INT(Z/256)):NEXTZ
192 :
193 +OX BYT0:+OY BYT0:+CHAR BYT0:+COLOR BYT0
194 /-----/
200 +SETUPROOM LDX+ROOM:LDA+WALLCOLOR,X:STA+WALLCOLOR:LDA+ROOMTYPE,X:TAY
201 LDA+MAPSTARTLD,Y:STA+MAPSTARTL:LDA+MAPSTARTHD,Y:STA+MAPSTARTH:LDA+NXD,Y
202 STA+NX:LDA+NYD,Y:STA+NY:LDA+SXD,Y:STA+SX:LDA+SYD,Y:STA+SY:LDA+WX:SEC:SBC#1
203 CLC:ROR:STA+CX:LDA+WY:SEC:SBC#1:CLC:ROR:STA+CY:LDA+SX:STA+XL:LDA+NX:SEC
204 SBC#1:STA+XH:LDX#0:+SR1 DEC+XL:LDA+XL:CPH#255:BNE+SR2:LDA+SX:SEC:SBC#1
205 STA+XL:DEC+XH:+SR2 INX:CPX+WX:BNE+SR1:LDA+SY:STA+YL:LDA+NY:SEC:SBC#1:STA+YH
206 LDX#0:+SR3 DEC+YL:LDA+YL:CPH#255:BNE+SR4:LDA+SY:SEC:SBC#1:STA+YL:DEC+YH
207 +SR4 INX:CPX+WY:BNE+SR3:RTS
208 :
209 +WALLCOLORD BYT255,0,7,1,0,7,1,5,0,6,1,2,6,5
210 +ROOMTYPE BYT255,0,0,0,0,6,1,7,8,9,3,4,5,1,2
211 +MAPSTARTLD BYT0,143,223,11,33,1,33,1,63,1,35,200,9,74
212 +MAPSTARTHD BYT232,233,233,233,233,233,233,233,233,233,233,233,233,233,233
213 +NXD BYT11,9,9,25,11,9,33,33,33,33,33,33,33,33,33
214 +NYD BYT13,8,8,8,8,8,33,33,33,33,33,33,33,33,33
215 +SXD BYT5,5,5,5,5,5,5,5,5,5,5,5,5,5,5
216 +SYD BYT2,3,3,3,3,3,3,4,4,4,4,4,4,4,4
217 :
218 /NX,NY # OF BLOCKS / SX,SY BLOCK SIZE
219 :
240 +ROOM BYT0:+WALLCOLOR BYT0:+MAPSTARTL BYT0:+MAPSTARTH BYT0
241 +NX BYT0:+NY BYT0:+SX BYT0:+SY BYT0:+CX BYT0:+CY BYT0:+ML BYT0:+MH BYT0
242 +XL BYT0:+XH BYT0:+YL BYT0:+YH BYT0
243 :
244 +WX BYT0:+WY BYT0
245 /-----/
250 +CHECKEXIT LDA#5:STA+EXITFLAG:LDX+WX:DEX:STX3:LDY+WY:DEY:STY4
251 LDA+KNX:CPH#0:BNE+CE1:LDA+KNY:CPH#0:BNE+CE1:LDA+JOY:CPH#10:BNE+CE1:RTS
252 +CE1 LDA+KNX:CPH#3:BNE+CE2:LDA+KNY:CPH#0:BNE+CE2:LDA+JOY:CPH#6:BNE+CE2:RTS
253 +CE2 LDA+KNX:CPH#0:BNE+CE3:LDA+KNY:CPH#4:BNE+CE3:LDA+JOY:CPH#9:BNE+CE3:RTS
254 +CE3 LDA+KNX:CPH#3:BNE+CE4:LDA+KNY:CPH#4:BNE+CE4:LDA+JOY:CPH#5:BNE+CE4:RTS
255 +CE4 LDA#0:STA+EXITFLAG
256 +CE5 LDA+KNX:CPH#0:BNE+CE7:LDA+JOY:CPH#9:BEQ+CE6:CPH#10:BEQ+CE6:CPH#11
257 BNE+CE7:+CE6 LDA#1:STA+EXITFLAG:RTS
258 +CE7 LDA+KNX:CPH#3:BNE+CE9:LDA+JOY:CPH#5:BEQ+CE8:CPH#6:BEQ+CE8:CPH#7
259 BNE+CE9:+CE8 LDA#2:STA+EXITFLAG:RTS

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2660 +CE9 LDA+KNY: CMP#0: BNE+CE11: LDA+JOY: CMP#6: BEQ+CE10: CMP#10: BEQ+CE10: CMP#14
2661 BNE+CE11: +CE10 LDA#3: STA+EXITFLAG: RTS
2662 +CE11 LDA+KNY: CMP#4: BNE+CE13: LDA+JOY: CMP#5: BEQ+CE12: CMP#9: BEQ+CE12: CMP#13
2663 BNE+CE13: +CE12 LDA#4: STA+EXITFLAG: RTS
2664 +CE13 RTS
2665 :
2666 +EXITFLAG BYTE
2667 /-----
2668 +MOVEKNIGHT LDA+EATEN: CMP#255: BEQ+MK0: RTS: +MK0
2669 LDA56320: AND#15: STA+JOY: JSR+CHECKEXIT: LDA+EXITFLAG: CMP#5: BEQ+MKEND: CMP#0
2670 BEQ+MK1: JSR+EXITROOM: JMP+MKEND: +MK1 JSR+CROSSBRIDGE: LDA+COLX: CMP#1: BEQ+MK2
2671 LDA+COLY: CMP#1: BEQ+MK2: LDA+COL: CMP#1: BEQ+MK6
2672 +MK2 LDA+COLX: CMP#0: BNE+MK4: LDX+JOY: LDA+COMPX, X: BEQ+MK4: CMP#2: BEQ+MK3
2673 JSR+LEFT: JMP+MK4: +MK3 JSR+RIGHT
2674 +MK4 LDA+COLY: CMP#0: BNE+MK6: LDX+JOY: LDA+COMPY, X: BEQ+MK6: CMP#2: BEQ+MK5
2675 JSR+UP: JMP+MK6: +MK5 JSR+DOWN
2676 +MK6 JSR+ENTERCASTLE: LDA+EXITFLAG: CMP#6: BEQ+MKEND: JSR+TAKEOBJECT: +MKEND RTS
2677 :
2678 +COMPX BYTE, 0, 0, 0, 0, 2, 2, 2, 0, 1, 1, 1, 0, 0, 0, 0
2679 +COMPY BYTE, 0, 0, 0, 0, 2, 1, 0, 0, 2, 1, 0, 0, 2, 1, 0
2680 :
2681 +JOY BYTE
2682 /-----
2683 +LEFT LDA+PXL: CMP+XL: BNE+LEFT0A: LDA+PXH: CMP+XH: BNE+LEFT0A: LDA+KNX: CMP+CX
2684 BNE+LEFT2: +LEFT0A LDA+PXL: CMP#0: BNE+LEFT1: LDA+PXH: CMP#0: BEQ+LEFT2
2685 +LEFT1 DEC+PX: DEC+PXL: LDA+PXL: CMP#255: BNE+LEFT3: LDA+SX: SEC: SBC#1: STA+PXL
2686 DEC+PXH: JMP+LEFT3: +LEFT2 DEC+KNX: LDA+KNL: SEC: SBC#1: STA+KNL: LDA+KNH: SBC#0
2687 STA+KNH: +LEFT3 DEC+KNXL: LDA+KNXL: CMP#255: BNE+LEFT4: LDA+SX: SEC: SBC#1
2688 STA+KNXL: DEC+KNXH: +LEFT4 RTS
2689 /-----
2690 +RIGHT LDA+PXL: CMP#0: BNE+RIGHT0A: LDA+PXH: CMP#0: BNE+RIGHT0A: LDA+KNX: CMP+CX
2691 BNE+RIGHT2: +RIGHT0A LDA+PXL: CMP+XL: BNE+RIGHT1: LDA+PXH: CMP+XH: BEQ+RIGHT2
2692 +RIGHT1 INC+PX: INC+PXL: LDA+PXL: CMP+SX: BNE+RIGHT3: LDA#0: STA+PXL: INC+PXH
2693 JMP+RIGHT3: +RIGHT2 INC+KNX: LDA+KNL: CLC: ADC#1: STA+KNL: LDA+KNH: ADC#0: STA+KNH
2694 +RIGHT3 INC+KNXL: LDA+KNXL: CMP+SX: BNE+RIGHT4: LDA#0: STA+KNXL: INC+KNXH
2695 +RIGHT4 RTS
2696 /-----
2697 +UP LDA+PYL: CMP+YL: BNE+UP0A: LDA+PYH: CMP+YH: BNE+UP0A: LDA+KNY: CMP+CY: BNE+UP2
2698 +UP0A LDA+PYL: CMP#0: BNE+UP1: LDA+PYH: CMP#0: BEQ+UP2: +UP1 DEC+PY: DEC+PYL
2699 LDA+PYL: CMP#255: BNE+UP3: LDA+SY: SEC: SBC#1: STA+PYL: DEC+PYH: LDA+ML: SEC: SBC+NX
2700 STA+ML: LDA+MH: SBC#0: STA+MH: JMP+UP3: +UP2 DEC+KNY: LDA+KNL: SEC: SBC#40: STA+KNL
2701 LDA+KNH: SBC#0: STA+KNH: +UP3 DEC+KNYL: LDA+KNYL: CMP#255: BNE+UP4: LDA+SY: SEC
2702 SBC#1: STA+KNYL: DEC+KNYH: +UP4 RTS
2703 /-----

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3340 +DOWN LDA+PYL: CMP#0: BNE+DOWN0A: LDA+PYH: CMP#0: BNE+DOWN0A: LDA+KNY: CMP+CY
3341 BNE+DOWN2: +DOWN0A LDA+PYL: CMP+YL: BNE+DOWN1: LDA+PYH: CMP+YH: BEQ+DOWN2
3342 +DOWN1 INC+PY: INC+PYL: LDA+PYL: CMP+SY: BNE+DOWN3: LDA#0: STA+PYL: INC+PYH: LDA+ML
3343 CLC: ADC+NX: STA+ML: LDA+MH: ADC#0: STA+MH: JMP+DOWN3: +DOWN2 INC+KNY: LDA+KNL: CLC
3344 ADC#40: STA+KNL: LDA+KNH: ADC#0: STA+KNH: +DOWN3 INC+KNYL: LDA+KNYL: CMP+SY
3345 BNE+DOWN4: LDA#0: STA+KNYL: INC+KNYH: +DOWN4 RTS
3346 /-----
3347
3348 +DRAWKNIGHT LDA+EATEN: CMP#255: BNE+DK
3349 LDX+KNX: LDA+KNSXL, X: STA53248: LDA53264: AND#254: ORA+KNSXH, X: STA53264: LDX+KNY
3350 LDA+KNSY, X: STA53249: +DK RTS
3351
3352 :
3353 +KNSXL: FORZ=0T039: A=23+Z*8: BYT(A-INT(A/256)*256): NEXTZ
3354 +KNSXH: FORZ=0T039: A=23+Z*8: BYT(INT(A/256)): NEXTZ
3355 +KNSY: FORZ=0T024: BYT(50+Z*8): NEXTZ
3356 /-----
3357
3358 +KNL BYT0: +KNH BYT0: +KNX BYT0: +KNY BYT0
3359 /-----
3360
3361 +POSITIONKNIGHT LDA#0: STA+KNL: LDA#200: STA+KNH: LDA#0: STA+KNX: STA+KNY
3362 LDA#0: STA+PXL: STA+PXH: STA+PYL: STA+PYH: LDA+MAPSTARTL: STA+ML: LDA+MAPSTARTH
3363 STA+MH: LDA#0: STA+PX: STA+PY
3364 :
3365 LDA#0: STA3: STA4: LDA+KNXL: BNE+PK1: LDA+KNXH: BEQ+PK6: +PK1 LDA+PXL: BNE+PK2
3366 LDA+PXH: BNE+PK2: LDA+KNX: CMP+CX: BNE+PK4: +PK2 LDA+PXL: CMP+XL: BNE+PK3: LDA+PXH
3367 CMP+XH: BEQ+PK4: +PK3 INC+PX: INC+PXL: LDA+PXL: CMP+SX: BNE+PK5: LDA#0: STA+PXL
3368 INC+PXH: JMP+PK5: +PK4 INC+KNX: LDA+KNL: CLC: ADC#1: STA+KNL: LDA+KNH: ADC#0
3369 STA+KNH: +PK5 INC3: LDA3: CMP+SX: BNE+PK5A: LDA#0: STA3: INC4: +PK5A LDA3: CMP+KNXL
3370 BNE+PK1: LDA4: CMP+KNXH: BNE+PK1
3371 :
3372 +PK6 LDA#0: STA3: STA4: LDA+KNYL: BNE+PK7: LDA+KNYH: BEQ+PK12: +PK7 LDA+PYL
3373 BNE+PK8: LDA+PYH: BNE+PK8: LDA+KNY: CMP+CY: BNE+PK10: +PK8 LDA+PYL: CMP+YL: BNE+PK9
3374 LDA+PYH: CMP+YH: BEQ+PK10: +PK9 INC+PY: INC+PYL: LDA+PYL: CMP+SY: BNE+PK11: LDA#0
3375 STA+PYL: INC+PYH: LDA+ML: CLC: ADC+NX: STA+ML: LDA+MH: ADC#0: STA+MH: JMP+PK11
3376 +PK10 INC+KNY: LDA+KNL: CLC: ADC#40: STA+KNL: LDA+KNH: ADC#0: STA+KNH: +PK11 INC3
3377 LDA3: CMP+SY: BNE+PK11A: LDA#0: STA3: INC4: +PK11A LDA3: CMP+KNYL: BNE+PK7: LDA4
3378 CMP+KNYH: BNE+PK7: +PK12 RTS
3379 :
3380 +KNXL BYT0: +KNXH BYT0: +KNYL BYT0: +KNYH BYT0
3381 /-----
3382
3383 +DRAWMONSTERS LDA#0: STA5: LDX#0: +DM0 LDA+MONR, X: CMP+ROOM: BEQ+DM1: +DM00 LDY5
3384 LDA#0: STA53251, Y: JMP+DM4: +DM1 JSR+MROUT: LDA+OX: CLC: ADC#6: SEC: SBC+PX
3385 BCC+DM00: SEC: SBC#3: BCC+DM00: STA3: LDA+WX: CLC: ADC#2: SEC: SBC3: BCC+DM00: LDA+OY
3386 CLC: ADC#8: SEC: SBC+PY: BCC+DM00: SEC: SBC#4: BCC+DM00: STA4: LDA+WY: CLC: ADC#3: SEC
3387 SBC4: BCC+DM00: LDA+SHAPE, X: STA52217, X: STA53241, X: LDY3: LDA+MONSXL, Y: CLC
3388 ADC+DRAGX, X: LDY5: STA53250, Y: LDY3: LDA+MONSXH, Y: CPX#0: BEQ+DM3: CPX#1: BEQ+DM2

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436 CLC:ROL:←DM2 CLC:ROL:←DM3 STA6:LDA53264:AND←EXC,X:ORA6:STA53264:LDY4
437 LDA←MONSY,Y:CLC:ADC←DRAGY,X:LDY5:STA53251,Y:←DM4 INC5:INC5:INX:CPX#3
438 BEQ←DM5:JMP←DM0:←DM5 JSR←DRAWBAT:RTS
439 :
440 ←DRAWBAT LDX#3:LDA←MONR,X:CMP←ROOM:BEQ←DB2:←DB1 LDA#0:STA53257:RTS
441 ←DB2 JSR←MROUT:LDA←OX:CLC:ADC#6:SEC:SBC←PX:BCC←DB1:SEC:SBC#3:BCC←DB1:STA3
442 LDA←WX:SEC:SBC3:BCC←DB1:LDA←OY:CLC:ADC#4:SEC:SBC←PY:BCC←DB1:SEC:SBC#2
443 BCC←DB1:STA4:LDA←WY:CLC:ADC#1:SEC:SBC4:BCC←DB1:LDA←SHAPE,X:STA52217,X
444 STA53241,X:LDY3:LDA←BATXL,Y:STA53256:LDA53264:AND#239:ORA←BATXH,Y:STA53264
445 LDY4:LDA←BATY,Y:STA53257:RTS
446 :
450 ←MONSXL:FORZ=-3T039:A=24+Z*8:BYT(A-INT(A/256)*256):NEXTZ
451 ←MONSXH:FORZ=-3T039:A=24+Z*8:BYT(INT(A/256))*2:NEXTZ
452 ←MONSY:FORZ=-4T024:BYT(50+Z*8):NEXTZ:←EXC BYT253,251,247
453 ←BATXL:FORZ=-3T039:A=24+Z*8:BYT(A-INT(A/256)*256):NEXTZ
454 ←BATXH:FORZ=-3T039:A=24+Z*8:BYT(INT(A/256))*16:NEXTZ
455 ←BATY:FORZ=-2T024:BYT(50+Z*8):NEXTZ
456 :
457 ←MONXL BUF4,0:←MONXH BUF4,0:←MONYL BUF4,0:←MONYH BUF4,0:←MONR BUF4,0
458 ←SHAPE BUF4,0
459 :
460 ←MROUT LDA←MONXH,X:TAY:LDA←FIVE,Y:CLC:ADC←MONXL,X:STA←OX:LDA←MONYH,X:STA2
461 LDA←MONR,X:TAY:LDA←ROOMTYPE,Y:TAY:LDA←SYD,Y:LDY2:CPH#2:BNE←MR1:LDA←TWO,Y
462 JMP←MR3:←MR1 CPH#3:BNE←MR2:LDA←THREE,Y:JMP←MR3:←MR2 LDA←FOUR,Y:←MR3 CLC
463 ADC←MONYL,X:STA←OY:RTS
464 /-----/
469 :
470 ←MML JSR←MM1:JSR←AOL:JSR←MM2:RTS
471 ←MMR JSR←MM1:JSR←AOR:JSR←MM2:RTS
472 ←MMU JSR←MM1:JSR←AOU:JSR←MM2:RTS
473 ←MMD JSR←MM1:JSR←AOD:JSR←MM2:RTS
474 :
475 ←MM1 LDX←MONSTER:LDA←MONXL,X:STA←OXL:LDA←MONXH,X:STA←OXH:LDA←MONYL,X
476 STA←OYL:LDA←MONYH,X:STA←OYH:LDA←MONR,X:STA←R:RTS
477 :
478 ←MM2 LDX←MONSTER:LDA←OXL:STA←MONXL,X:LDA←OXH:STA←MONXH,X:LDA←OYL
479 STA←MONYL,X:LDA←OYH:STA←MONYH,X:LDA←R:STA←MONR,X:RTS
480 :
481 ←MONSTER BYT0
482 /-----/
489 :
490 ←MOVEWINGS
491 INC←WINGS:LDA←WINGS:AND#7:STA←WINGS:TAX:LDA←WINGD,X:LDX#3:STA←SHAPE,X:RTS
492 :
493 ←WINGD BYT5,5,6,6,7,7,6,6
494 :

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4995 +WINGS BYT0
4996 /-----
5000 +SHOWSCREEN LDA#15:STA3:LDA+WALLCOLOR:STA4:LDA+INVENTORY:CMF#6:BEQ+SS1
5001 LDA+BATOBJECT:CMF#6:BEQ+SS1:LDA+OBJR+6:CMF#5:BNE+SS1:INC+FLASH:LDA+FLASH
5002 CMF#6:BNE+SS0:LDA#0:STA+FLASH:+SS0 TAX:LDA+FLD1,X:STA3:LDA+FLD2,X:STA4
5003 :
5004 +SS1 LDA53266:SEC:SBC#40:BCS+SS1:LDA+MODE:CMF#0:BEQ+SS2:LDA#0:STA+MODE
5005 LDA#8+32:STA53272:JMP+SS3:+SS2 LDA#4:STA+MODE:LDA#8+48:STA53272
5006 +SS3 LDA#63:STA56578:LDA#196:STA56576:LDA#8+16:STA53270:LDA#0:STA53280
5007 LDA3:STA53281:LDA4:STA53282:STA53287+7:RTS
5008 :
5009 +MODE BYT0:+FLASH BYT0:+FLD1 BYT1,15,12,11,12,15:+FLD2 BYT11,12,15,1,15,12
5010 /-----
5011 +ENTERCASTLE LDA+ROOM:CMF#1:BEQ+EC1:CMF#2:BEQ+EC1:CMF#3:BEQ+EC1:+ECEND RTS
5012 +EC1 LDX+ROOM:DEX:LDA+GATEPOS,X:BNE+ECEND
5013 LDA+KNYH:CMF#7:BNE+ECEND:LDA+KNYL:CMF#0:BNE+ECEND:LDA+KNXH:CMF#5
5014 BNE+ECEND:LDA+KNXL:CMF#0:BEQ+ECEND:CMF#4:BEQ+ECEND
5015 LDX+ROOM:DEX:LDA+ECD1,X:STA+KNXH:LDA+ECD2,X:STA+KNYL:LDA+ECD3,X:STA+KNYH
5016 LDA+ROOM:CLC:ADC#3:STA+ROOM:JSR+SETUPROOM:JSR+POSITIONKNIGHT
5017 LDA#6:STA+EXITFLAG:RTS
5018 :
5019 +ECD1 BYT16,4,16:+ECD2 BYT3,2,3:+ECD3 BYT32,7,32
5020 /-----
5021 +EXITROOM LDA+EXITFLAG:STA+DIR:LDA+ROOM:STA+R:LDA+KNXL:STA+OXL:LDA+KNXH
5022 STA+OXH:LDA+KNYL:STA+OYL:LDA+KNYH:STA+OYH:JSR+TRANSFER:LDA+R:STA+ROOM
5023 LDA+OXL:STA+KNXL:LDA+OXH:STA+KNXH:LDA+OYL:STA+KNYL:LDA+OYH:STA+KNYH
5024 JSR+SETUPROOM:JSR+POSITIONKNIGHT:RTS
5025 /-----
5026 +TAKEOBJECT
5027 LDA+COL:AND#192:BNE+T01:RTS
5028 +T01 LDA+COL:AND#63:TAX:LDA+OBJNO,X:STA+INVENTORY:TAX
5029 :
5030 LDA+JOY:CMF#5:BNE+T02:LDA#2:STA+CARRYX:JMP+T010
5031 +T02 CMF#6:BNE+T03:LDA#2:STA+CARRYX:LDA+OBU,X:JMP+T010
5032 +T03 CMF#7:BNE+T04:LDA#2:STA+CARRYX:LDA+OBCU,X:JMP+T010
5033 +T04 CMF#9:BNE+T05:LDA+OBL,X:STA+CARRYX:LDA#2:JMP+T010
5034 +T05 CMF#10:BNE+T06:LDA+OBL,X:STA+CARRYX:LDA+OBU,X:JMP+T010
5035 +T06 CMF#11:BNE+T07:LDA+OBL,X:STA+CARRYX:LDA+OBCU,X:JMP+T010
5036 +T07 CMF#13:BNE+T08:LDA+OBCH,X:STA+CARRYX:LDA#2:JMP+T010
5037 +T08 CMF#14:BNE+T09:LDA+OBCH,X:STA+CARRYX:LDA+OBU,X:JMP+T010
5038 +T09 LDA#255:STA+INVENTORY:RTS
5039 +T010 STA+CARRYX:LDA#5:STA+SND1:RTS
5040 :
5041 +OBJNO BYT0,0,0,1,1,1,2,2,2,3,3,3,5,5,5,5,6,6,6,6,6,6,6,6,6,6,4,4,4

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6881 :
6882 +OBL BYT134,132,132,132,132,132,132,132:+OBU BYT135,130,130,130,130,132,132
6883 +OBCH BYT130,129,129,129,129,129,129,129:+OBCU BYT130,0,0,0,0,129,129
6884 :
6885 +INVENTORY BYT255
6886 /-----/
6887 +TRANSFER LDY+R:LDA+RSTART,Y:TAX:LDA+NUMENT,Y:TAY:+TR1 LDA+DIRD,X:CMP+DIR
6888 BNE+TRINC:CMPI#3:BEQ+TR2:CMPI#4:BEQ+TR2:LDA+OYH:SEC:SBC+LOW,X:BCC+TRINC
6889 LDA+HIGH,X:SEC:SBC+OYH:BCC+TRINC:LDA+NEWNR,X:STA+R:LDA+CHANGE,X:BEQ+TREND
6890 CMPI#32:BNE+TR11:JSR+FOURTHREE:JMP+TREND:+TR11 CMPI#64:BNE+TR11
6891 JSR+THREEFOUR:+TR111 JMP+TREND:+TRINC INX:DEY:CPY#0:BNE+TR1:JMP+TREND
6892 :
6893 +TR2 LDA+OXH:SEC:SBC+LOW,X:BCC+TRINC:LDA+HIGH,X:SEC:SBC+OXH:BCC+TRINC
6894 LDA+NEWNR,X:STA+R:LDA+CHANGE,X:BEQ+TREND:CMPI#16:BEQ+EXITCASTLE:STA2:AND#128
6895 BEQ+TR22:LDA2:AND#127:STA2:LDA+OXH:SEC:SBC2:STA+OXH:JMP+TREND:+TR22 LDA+OXH
6896 CLC:ADC2:STA+OXH
6897 :
6898 +TREND LDX+R:LDA+ROOMTYPE,X:TAX:LDA+DIR:CMPI#1:BNE+TR3:LDA+SXD,X:SEC:SBC#1
6899 STA+OXL:LDA+NXD,X:SEC:SBC#1:STA+OXH:JMP+TR6:+TR3 CMPI#2:BNE+TR4:LDA#0
6900 STA+OXL:STA+OXH:JMP+TR6:+TR4 CMPI#3:BNE+TR5:LDA+SYD,X:SEC:SBC#1:STA+OYL
6901 LDA+NYD,X:SEC:SBC#1:STA+OYH:JMP+TR6:+TR5 CMPI#4:BNE+TR6:LDA#0:STA+OYL
6902 STA+OYH:+TR6 RTS
6903 :
6904 +EXITCASTLE LDA#2:STA+OXL:LDA#5:STA+OXH:LDA#1:STA+OYL:LDA#7:STA+OYH:RTS
6905 :
6906 +FOURTHREE LDA+OYL:STA3:LDA+OYH:STA4:LDX#0:+FT1 DEC3:LDA3:CMPI#255:BNE+FT2
6907 LDA#3:STA3:DEC4:+FT2 INX:CPX#54:BNE+FT1:LDA#0:STA+OYL:STA+OYH:+FT3 INC+OYL
6908 LDA+OYL:CMPI#3:BNE+FT4:LDA#0:STA+OYL:INC+OYH:+FT4 DEC3:LDA3:CMPI#255:BNE+FT5
6909 LDA#3:STA3:DEC4:+FT5 LDA3:BNE+FT3:LDA4:BNE+FT3:RTS
6910 :
6911 +THREEFOUR LDA+OYL:STA3:LDA+OYH:STA4:LDX#0:+TF1 INC3:LDA3:CMPI#3:BNE+TF2
6912 LDA#0:STA3:INC4:+TF2 INX:CPX#54:BNE+TF1:LDA#0:STA+OYL:STA+OYH:+TF3 INC+OYL
6913 LDA+OYL:CMPI#4:BNE+TF4:LDA#0:STA+OYL:INC+OYH:+TF4 DEC3:LDA3:CMPI#255:BNE+TF5
6914 LDA#2:STA3:DEC4:+TF5 LDA3:BNE+TF3:LDA4:BNE+TF3:RTS
6915 :
6916 +RSTART BYT0,0,4,8,12,19,22,29,37,45,53,57,61,65
6917 +NUMENT BYT0,4,4,4,7,3,7,8,8,8,4,4,4,4
6918 +DIRD BYT1,2,3,4,1,2,3,4,1,2,3,4,1,2,3,3,4,4,4,1,2,4,1,2,3,3,4,4,4
6919 BYT1,2,3,3,3,4,4,4,1,2,3,3,3,4,4,4,1,2,3,3,3,4,4,4,1,2,3,4,1,2,3,4
6920 BYT1,2,3,4
6921 +LOW BYT0,0,0,0,0,0,2,0,0,0,0,0,0,0,0,17,0,16,17,0,0,0
6922 BYT0,0,0,17,0,16,17,0,0,0,11,22,0,13,20,15,15,0,13,20,0,13,22
6923 BYT0,0,0,7,18,0,11,18,0,2,0,0,2,0,0,0,0,0,0,0,0,0,0,0
6924 +HIGH BYT12,12,10,10,12,12,8,10,12,12,10,10,32,32,15,32,15,16,32

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6659 BYT7,7,8,32,32,15,32,15,16,32,32,32,10,21,32,12,19,32
6660 BYT11,7,17,12,19,32,10,19,32,7,7,6,17,24,10,17,24,7,5,10,10
6661 BYT5,7,8,8,7,7,8,8,7,7,8,8,7,7,8,8,7,7,8,8,7,7,8,8
6662 +NEWBYT3,2,10,7,13,9,9,2,1,9,10,6,7,6,6,6,1,6,13,12,2
6663 BYT7,4,4,4,4,3,4,4,6,6,1,6,6,1,9,6,10,6,11,7,9,7,7,9,7,11,10,7,2,8,3,2,8
6664 BYT9,8,3,1,8,9,12,13,5,13,13,11,12,5,11,12
6665 +CHANGE BYT0,0,0,11,0,0,7,7,0,0,0,0,0,0,16,0,0,0,16
6666 BYT0,0,0,0,0,16,0,0,0,0,13,9,0,0,14,1,0,32,32,0,5,0,0,5,0
6667 BYT0,0,13,135,133,0,135,133,0,64,0,0,64,0,0,0,0,0,0,0,0,0,0
6668 :
6669 +R BYT0:+DIR BYT0:+OXL BYT0:+OXH BYT0:+OYL BYT0:+OYH BYT0
6670 /-----
6699
7000 +DRAWOBJECTS LDA#0:STA+COUNT:+D00 LDX+COUNT:LDA+LOCR,X:CMP+ROOM:BNE+D01
7001 JSR+DROUT:LDA+CHARD,X:STA+CHAR:LDA+COLORD,X:STA+COLOR:JSR+DRAWCHAR
7002 +D01 INC+COUNT:LDA+COUNT:CMPI#42:BNE+D00:RTS
7003 :
7010 +DROUT LDA+LOCXH,X:TAY:LDA+FIVE,Y:CLC:ADC+LOCXL,X:STA+OX:LDA+LOCYH,X:TAY
7011 STX2:LDA+LOCR,X:TAX:LDA+ROOMTYPE,X:TAX:LDA+SYD,X:CMPI#2:BNE+DR1:LDA+TWO,Y
7012 JMP+DR3:+DR1 CMPI#3:BNE+DR2:LDA+THREE,Y:JMP+DR3:+DR2 LDA+FOUR,Y
7013 +DR3 LDX2:CLC:ADC+LOCYL,X:STA+OY:RTS
7014 :
7020 +LOCXL BUF42,0:+LOCXH BUF42,0:+LOCYL BUF42,0:+LOCYH BUF42,0:+LOCR BUF42,0
7021 +CHARD BYT64,66,66,66,66,64,64,65,65,65,65,64,67,68,69,70,71,72,73,74,75
7022 BYT89,90,91,76,76,77,0,0,78,76,76,79,81,84,86,82,80,87,83,85,88
7023 :
7024 +COLORD BYT14,14,14,14,14,14,14,14,14,14,14,14,14,8,8,8,15,15,15,9,9,9
7025 BYT15,15,15,8,8,8,8,8,8,8,8,8,15,15,15,15,15,15,15,15,15
7026 :
7030 +TWO FORZ=0T050*2STEP2:BYTZ:NEXTZ
7031 +THREE FORZ=0T050*3STEP3:BYTZ:NEXTZ
7032 +FOUR FORZ=0T050*4STEP4:BYTZ:NEXTZ
7033 +FIVE FORZ=0T050*5STEP5:BYTZ:NEXTZ
7034 :
7040 +COUNT BYT0
7049 /-----
7500 +MOL JSR+M01:JSR+AOL:JSR+M02:RTS
7501 +MOR JSR+M01:JSR+AOR:JSR+M02:RTS
7502 +MOU JSR+M01:JSR+AOU:JSR+M02:RTS
7503 +MOD JSR+M01:JSR+AOD:JSR+M02:RTS
7504 :
7600 +M01 LDX+OBJECT:LDA+OBJXL,X:STA+OXL:LDA+OBJXH,X:STA+OXH:LDA+OBJYL,X:STA+OYL
7601 LDA+OBJYH,X:STA+OYH:LDA+OBJR,X:STA+R:RTS
7602 :
7603 +M02 LDX+OBJECT:LDA+OXL:STA+OBJXL,X:LDA+OXH:STA+OBJXH,X:LDA+OYL:STA+OBJYL,X

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764 LDA+OYH:STA+OBJYH,X:LDA+R:STA+OBJR,X:RTS
765 :
766 +OBJXL BUF7,0:+OBJXH BUF7,0:+OBJYL BUF7,0:+OBJYH BUF7,0:+OBJR BUF7,0
767 +OBJECT BYT0
768 /-----
769 +HAVEOBJECT
770 LDA+INVENTORY:CMPI#255:BNE+H01:RTS:+H01 STA+OBJECT:TAX:LDA+KNXL:STA+OBJXL,X
771 LDA+KNXH:STA+OBJXH,X:LDA+KNYL:STA+OBJYL,X:LDA+KNYH:STA+OBJYH,X:LDA+ROOM
772 STA+OBJR,X
773 :
774 :
775 LDA+CARRYX:AND#127:BEQ+H04:STA+COUNT:LDA+CARRYX:AND#128:BEQ+H03
776 +H02 JSR+MOL:DEC+COUNT:LDA+COUNT:BNE+H02:BEQ+H04:+H03 JSR+MOR:DEC+COUNT
777 LDA+COUNT:BNE+H03
778 +H04 LDA+CARRYX:AND#127:BEQ+H07:STA+COUNT:LDA+CARRYX:AND#128:BEQ+H06
779 +H05 JSR+MOU:DEC+COUNT:LDA+COUNT:BNE+H05:BEQ+H07:+H06 JSR+MOD:DEC+COUNT
780 LDA+COUNT:BNE+H06
781 +H07 JSR+ARRANGEOBJECT:LDA+OBJECT:CMPI+BATOBJECT:BEQ+H08:RTS:+H08 TAX
782 LDA+OBJXL,X:STA+MONXL+3:LDA+OBJXH,X:STA+MONXH+3:LDA+OBJYL,X:STA+MONYL+3
783 LDA+OBJYH,X:STA+MONYH+3:LDA+OBJR,X:STA+MONR+3:RTS
784 :
785 :
786 +CARRYX BYT0:+CARRYX BYT0
787 /-----
788 +ARRANGEOBJECT LDX+OBJECT:LDA+OSTART,X:STA+COUNT:CPX#0:BEQ+A01:CPX#5
789 BEQ+A00:CPX#6:BEQ+A00:JMP+A02:+A00 JMP+A03
790 :
791 :
792 +A01 JSR+ROUT1:FORZ=1TO5:JSR+ROUT2:JSR+A0D:NEXTZ:JSR+ROUT2:FORZ=0TO5
793 JSR+ROUT1:IFZ>0THENFORZZ=1TOZ:JSR+A0D:NEXTZZ
794 FORZZ=1TO4:JSR+A0R:NEXTZZ:JSR+ROUT2:NEXTZ:RTS
795 +A02 JSR+ROUT1:JSR+ROUT2:JSR+A0R:JSR+ROUT2:JSR+A0R:JSR+ROUT2:RTS
796 +A03 FORZ=0TO2:JSR+ROUT1:IFZ>0THENFORZZ=1TOZ:JSR+A0R:NEXTZZ
797 JSR+ROUT2:JSR+A0D:JSR+ROUT2:JSR+A0D:JSR+ROUT2:NEXTZ:RTS
798 :
799 :
800 +ROUT1 LDX+OBJECT:LDA+OBJXL,X:STA+OXL:LDA+OBJXH,X:STA+OXH:LDA+OBJYL,X
801 STA+OYL:LDA+OBJYH,X:STA+OYH:LDA+OBJR,X:STA+R:RTS
802 :
803 :
804 +ROUT2 LDX+COUNT:LDA+OXL:STA+LOCXL,X:LDA+OXH:STA+LOCXH,X:LDA+OYL
805 STA+LOCYL,X:LDA+OYH:STA+LOCYH,X:LDA+R:STA+LOCYH,X:INC+COUNT:RTS
806 :
807 :
808 +A0L LDA+OXL:CMPI#0:BNE+A0L1:LDA+OXH:CMPI#0:BNE+A0L1:LDA#1:STA+DIR
809 JSR+TRANSFER:RTS:+A0L1 LDX+R:LDA+ROOMTYPE,X:TAX:DEC+OXL:LDA+OXL:CMPI#255
810 BNE+A0L2:LDA+SXD,X:SEC:SBC#1:STA+OXL:DEC+OXH:+A0L2 RTS
811 :
812 :
813 +A0R LDX+R:LDA+ROOMTYPE,X:TAX:LDA+SXD,X:SEC:SBC#1:CMPI#0:BNE+A0R1
814 LDA+NXD,X:SEC:SBC#1:CMPI#0:BNE+A0R1:LDA#2:STA+DIR:JSR+TRANSFER:RTS

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832 +AOR1 INC+OXL:LDA+OXL: CMP+SXD,X: BNE+AOR2:LDA#0: STA+OXL: INC+OXH:+AOR2 RTS
833 :
840 +AOU LDA+OYL: CMP#0: BNE+AOU1:LDA+OYH: CMP#0: BNE+AOU1:LDA#3: STA+DIR
841 JSR+TRANSFER: RTS:+AOU1 LDX+R:LDA+ROOMTYPE,X: TAX: DEC+OYL:LDA+OYL: CMP#255
842 BNE+AOU2:LDA+SYD,X: SEC: SBC#1: STA+OYL: DEC+OYH:+AOU2 RTS
843 :
850 +AOD LDX+R:LDA+ROOMTYPE,X: TAX:LDA+SYD,X: SEC: SBC#1: CMP+OYL: BNE+AOD1
851 LDA+NYD,X: SEC: SBC#1: CMP+OYH: BNE+AOD1:LDA#4: STA+DIR: JSR+TRANSFER: RTS
852 +AOD1 INC+OYL:LDA+OYL: CMP+SYD,X: BNE+AOD2:LDA#0: STA+OYL: INC+OYH:+AOD2 RTS
853 :
854 +OSTART BYT0,12,15,18,21,24,33,42,54,66
859 /-----
860 +SWORD LDX#4: JSR+OROUT:LDA#0: STA5:+SW0 LDX5:LDA+SHAPE,X: CMP#4: BEQ+SWEND
861 LDX#4:LDA+OBJR,X: LDX5: CMP+MONR,X: BNE+SWEND: JSR+MROUT
862 LDY+OX: CPY3: BEQ+SW1: INY: CPY3: BEQ+SW1: INY: CPY3: BEQ+SW1
863 INY: CPY3: BNE+SWEND:+SW1 LDY+OY: CPY4: BEQ+SW2: INY: CPY4: BEQ+SW2: INY: CPY4
864 BEQ+SW2: INY: CPY4: BEQ+SW2: INY: CPY4: BNE+SWEND
865 +SW2 LDX5:LDA#4: STA+SHAPE,X: LDA#31: STA+SND4
866 :
867 +SWEND INC5:LDA5: CMP#3: BNE+SW0: RTS
868 :
870 +OROUT LDA+OBJXH,X: TAY:LDA+FIVE,Y: CLC: ADC+OBJXL,X: STA3:LDA+OBJYH,X: TAY
871 STX2:LDA+OBJR,X: TAX:LDA+ROOMTYPE,X: TAX:LDA+SYD,X: CMP#2: BNE+OR1:LDA+TWO,Y
872 JMP+OR3:+OR1 CMP#3: BNE+OR2:LDA+THREE,Y: JMP+OR3:+OR2 LDA+FOUR,Y:+OR3 LDX2
873 CLC: ADC+OBJYL,X: STA4: RTS
899 /-----
900 +DRAWGATE LDA+ROOM: CMP#1: BEQ+DG1: CMP#2: BEQ+DG1: CMP#3: BEQ+DG1:+DGEND LDA#0
901 STA53263: RTS:+DG1 LDA#30: SEC: SBC+PX: BCC+DGEND: SEC: SBC#2: BCC+DGEND: STA3
902 LDA+WX: CLC: ADC#1: SEC: SBC3: BCC+DGEND: LDA#17: SEC: SBC+PY: BCC+DGEND: SEC: SBC#3
903 BCC+DGEND: STA4:LDA+WY: CLC: ADC#2: SEC: SBC4: BCC+DGEND: LDX3:LDA+GXL,X: STA53262
904 LDA53264: AND#127: ORA+GXH,X: STA53264: LDX4:LDA+GY,X: LDX+ROOM: DEX: CLC
905 ADC+GATEPOS,X: STA53263: RTS
906 +GXL: FORZ=-2T039: A=27+Z*8: BYT(A-INT(A/256)*256): NEXTZ
907 +GXH: FORZ=-2T039: A=27+Z*8: BYT(INT(A/256)*128): NEXTZ
908 +GY: FORZ=-3T024: BYT(50+Z*8): NEXTZ
909 /-----
910 +KEYS
911 LDX#1:+KE0 TXA: CMP+OBJR,X: BEQ+KE1:+KEEND INX: CPX#4: BNE+KE0: RTS
912 +KE1 LDA+OBJXH,X: CMP#4: BNE+KE2:LDA+OBJXL,X: CMP#4: BEQ+KE3
913 +KE2 LDA+OBJXH,X: CMP#5: BNE+KEEND:LDA+OBJXL,X: CMP#4: BEQ+KEEND
914 +KE3 DEX:LDA+GATEDIR,X: INX: CMP#0: BNE+KEEND: DEX:LDA+GATEPOS,X: INX: CMP#0
915 BNE+KE4:LDA+OBJYH,X: CMP#7: BNE+KEEND:LDA+OBJYL,X: CMP#0: BNE+KEEND
916 LDA#2: DEX: STA+GATEDIR,X: INX: JMP+KEEND
917 +KE4 LDA+OBJYH,X: CMP#8: BNE+KEEND:LDA+OBJYL,X: CMP#1: BNE+KEEND

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9918 LDA#1:DEX:STA+GATEDIR,X:INX:JMP+KEEND
9919 /-----
9920 +MOVEGATES LDX#0:+MG1 LDA+GATEDIR,X:CMPI#1:BEQ+MG2:CMPI#2:BEQ+MG4:JMP+MG5
9921 +MG2 LDA+GATEPOS,X:CMPI#0:BEQ+MG3:DEC+GATEPOS,X:JMP+MG5:+MG3 LDA#0
9922 STA+GATEDIR,X:JMP+MG5:+MG4 LDA+GATEPOS,X:CMPI#24:BEQ+MG3:INC+GATEPOS,X
9923 +MG5 INX:CPX#3:BNE+MG1:RTS
9924 :
9925 +GATEPOS BUF3,24:+GATEDIR BUF3,0
9926 /-----
9927 +CROSSBRIDGE LDA#0:STA+COLX:STA+COLY:STA+COL:JSR+COLROU:LDA3:SEC:SBC#44
9928 STA3:LDA4:SBC#0:STA4:LDX+JOY:LDA3:CLC:ADC+BRD,X:STA3:LDA4:ADCH0:STA4:LDY#2
9929 LDA(3),Y:CMPI#64:BEQ+BR1:CMPI#128:BEQ+BR1:CMPI#66:BEQ+BR1:CMPI#130:BNE+BR4
9930 +BR1 LDY#6:LDA(3),Y:CMPI#64:BEQ+BR2:CMPI#128:BEQ+BR2:CMPI#65:BEQ+BR2:CMPI#129
9931 BNE+BR4:+BR2 LDY#3:LDA(3),Y:CMPI#1:BNE+BR8:RTS
9932 +BR4 LDY#1:LDA(3),Y:CMPI#64:BEQ+BR5:CMPI#128:BEQ+BR5:CMPI#66:BEQ+BR5:CMPI#130
9933 BNE+BR6:+BR5 LDY#5:LDA(3),Y:CMPI#64:BEQ+BR2:CMPI#128:BEQ+BR2:CMPI#65:BEQ+BR2
9934 CMPI#129:BEQ+BR2:+BR6 LDY#0:LDA(3),Y:CMPI#64:BEQ+BR7:CMPI#128:BEQ+BR7:CMPI#66
9935 BEQ+BR7:CMPI#130:BNE+BR8:+BR7 LDY#4:LDA(3),Y:CMPI#64:BEQ+BR2:CMPI#128
9936 BEQ+BR2:CMPI#65:BEQ+BR2:CMPI#129:BEQ+BR2:+BR8 LDY#3:LDA(3),Y:STA+COL
9937 :
9938 +COLLISION LDX+JOY:LDY#0:JSR+COLROU:LDA3:SEC:SBC#1:STA3:LDA4:SBC#0:STA4
9939 LDA3:CLC:ADC+DIRX,X:STA3:LDA4:ADCH0:STA4:LDA(3),Y:STA+COLX:JSR+COLROU:LDA3
9940 SEC:SBC#40:STA3:LDA4:SBC#0:STA4:LDA3:CLC:ADC+DIRY,X:STA3:LDA4:ADCH0:STA4
9941 LDA(3),Y:STA+COLY:RTS
9942 :
9943 +COLROU LDA+KNL:STA3:LDA+KNH:AND#255-4:CLC:ADC+MODE:STA4:RTS
9944 :
9945 +BRD BYT41,41,41,41,41,82,2,42,41,80,0,40,41,81,1,41
9946 +DIRX BYT1,1,1,1,1,2,2,2,1,0,0,0,1,1,1,1
9947 +DIRY BYT40,40,40,40,40,80,0,40,40,80,0,40,40,80,0,40
9948 :
9949 +COLX BYT0:+COLY BYT0:+COL BYT0
9950 /-----
9951 +SETUPSPRITES LDX#0:+SUS1 LDA+SPRITED,X:STA49152,X:LDA+SPRITED+256,X
9952 STA49152+256,X:INX:CPX#0:BNE+SUS1
9953 LDX#0:LDY#0:+SUS2 LDA+SPS,X:STA52216,X:STA53240,X:LDA+SPC,X:STA53287,X
9954 LDA#0:STA53248,Y:STA53249,Y:INY:INY:INX:CPX#8:BNE+SUS2:LDA#0:STA53264
9955 LDA#2+4+8+16+128:STA53271:LDA#2+4+8+16+128:STA53275:LDA#0:STA53276
9956 LDA#2+4+8+16:STA53277:LDA#1+2+4+8+16+128:STA53269:RTS
9957 :
9958 +SPRITED BUF24,255,192,0:BUF40,0
9959 BUF48,204,204,192,255,255,192:BUF16,0
9960 BYT0,0,0,7,192,0,12,192,0,127,224,0,15,224,0,0,224,0,0,240,0,1,252,0,3,206
9961 BYT0,7,142,0,7,14,0,15,14,0,15,254,0,15,254,0,3,254,0,0,12,0,127,252,0,96,0

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[illegible]

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20044 STA53264:RTS
20045 :
20046 +DAND BYT2,4,8
20047 /-----/
20048 +MAGNET LDX#5:JSR+OROUT:LDA3:STA+DESY:LDA4:STA+DESY:LDA#1:STA+OBJECT
20049 +MA0 LDA+OBJECT:CMP+BATOBJECT:BNE+MA0A:JMP+MAEND
20050 +MA0A CMP+INVENTORY:BNE+MA0B:JMP+MAEND:+MA0B LDX#5:LDA+OBJR,X
20051 LDX+OBJECT:CMP+OBJR,X:BNE+MAEND:JSR+OROUT:LDA3:STA+PO SX:LDA4:STA+PO SY
20052 :
20053 LDA+PO SX:CLC:ADC+WX:SEC:SBC+DESY:BCC+MAEND:LDA+DESY:CLC:ADC+WX:SEC
20054 SBC+PO SX:BCC+MAEND:LDA+PO SY:CLC:ADC+WY:SEC:SBC+DESY:BCC+MAEND:LDA+DESY:CLC
20055 ADC+WY:SEC:SBC+PO SY:BCC+MAEND
20056 :
20057 LDA+DESY:SEC:SBC+PO SX:BEQ+MA2:BCS+MA1:JSR+MOL:JMP+MA2:+MA1 JSR+MOR
20058 +MA2 LDA+DESY:SEC:SBC+PO SY:BEQ+MA4:BCS+MA3:JSR+MOU:JMP+MA4:+MA3 JSR+MOD
20059 +MA4 JSR+ARRANGEOBJECT
20060 :
20061 +MAEND INC+OBJECT:LDA+OBJECT:CMP#5:BNE+MAEND0:INC+OBJECT:JMP+MA0
20062 +MAEND0 CMP#7:BEQ+MAEND1:JMP+MA0:+MAEND1 RTS
20063 :
20064 +DESY BYT0:+DESY BYT0:+PO SX BYT0:+PO SY BYT0
20065 /-----/
20066 +MOVEDRAGONS LDX#0:+MD1 LDA#0:STA+FLAG,X:LDA+SHAPE,X:CMP#4:BEQ+MD2
20067 CPX+EATEN:BNE+MD22:+MD2 INC+FLAG,X:+MD22 INX:CPX#3:BNE+MD1
20068 :
20069 LDA+FLAG:BNE+MD3:LDX#0:LDA+MONR,X:LDX#2:CMP+OBJR,X:BNE+MD3:LDX#0:JSR+MRUT
20070 LDX#2:JSR+OROUT:LDA+OX:CLC:ADC+WX:SEC:SBC3:BCC+MD3:LDA3:CLC:ADC+WX:SEC
20071 SBC+OX:BCC+MD3:LDA+OY:CLC:ADC+WY:SEC:SBC4:BCC+MD3:LDA4:CLC:ADC+WY:SEC
20072 SBC+OY:BCC+MD3:LDA#2:STA+FLAG
20073 :
20074 +MD3 LDA+EATEN:CMP#255:BNE+MD6:JSR+AROUT:LDA3:STA+DESY:LDA4:STA+DESY:LDA#0
20075 STA+MONSTER:+MD4 LDX+MONSTER:LDA+MONR,X:CMP+ROOM:BNE+MD5:JSR+FOLLOW
20076 +MD5 INC+MONSTER:LDA+MONSTER:CMP#3:BNE+MD4
20077 :
20078 +MD6 LDA#0:STA+MONSTER:LDA#6:JSR+ROUTINE:INC+MONSTER:LDA#6:JSR+ROUTINE
20079 LDA#1:JSR+ROUTINE:LDA#0:JSR+ROUTINE:LDA#5:JSR+ROUTINE:INC+MONSTER:LDA#6
20080 JSR+ROUTINE:LDA#3:JSR+ROUTINE
20081 :
20082 JSR+WANDER:JSR+WANDER:RTS
20083 :
20084 +ROUTINE STA+OBJECT:TAX:JSR+OROUT:LDA3:STA+DESY:LDA4:STA+DESY:LDA+OBJR,X
20085 LDX+MONSTER:CMP+MONR,X:BNE+ROUTINE1:JSR+FOLLOW:+ROUTINE1 RTS
20086 :
20087 +FOLLOW LDX+MONSTER:LDA+FLAG,X:BNE+FEND:JSR+MRUT:LDA+OX:STA+PO SX:LDA+OY

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21331 STA+POSY: LDA+POSX: CLC: ADC+WX: SEC: SBC+DESY: BCC+FEND: LDA+DESY: CLC: ADC+WX: SEC
21332 SBC+POSX: BCC+FEND: LDA+POSY: CLC: ADC+WY: SEC: SBC+DESY: BCC+FEND: LDA+DESY: CLC
21333 ADC+WY: SEC: SBC+POSY: BCC+FEND
21334 LDX+MONSTER: LDA+DESY: SEC: SBC+POSX: BEQ+F2: BCS+F1: JSR+MDL: JMP+F2: +F1 JSR+MDR
21335 +F2 LDX+MONSTER: LDA+DESY: SEC: SBC+POSY: BEQ+F4: BCS+F3: JSR+MDU: JMP+F4
21336 +F3 JSR+MDD: +F4 LDX+MONSTER: INC+FLAG, X: +FEND RTS
21337 :
21338 +FLAG BUF3, 0
21339 :
21340 +MDL LDA+DRAGX, X: SEC: SBC+SPEED, X: BCC+MDL1: STA+DRAGX, X: RTS: +MDL1 CLC: ADC#8
21341 STA+DRAGX, X: JSR+MML: RTS
21342 +MDR LDA+DRAGX, X: CLC: ADC+SPEED, X: STA+DRAGX, X: AND#8: BNE+MDR1: RTS
21343 +MDR1 LDA+DRAGX, X: AND#7: STA+DRAGX, X: JSR+MMR: RTS
21344 +MDU LDA+DRAGY, X: SEC: SBC+SPEED, X: BCC+MDU1: STA+DRAGY, X: RTS: +MDU1 CLC: ADC#8
21345 STA+DRAGY, X: JSR+MMU: RTS
21346 +MDD LDA+DRAGY, X: CLC: ADC+SPEED, X: STA+DRAGY, X: AND#8: BNE+MDD1: RTS
21347 +MDD1 LDA+DRAGY, X: AND#7: STA+DRAGY, X: JSR+MMD: RTS
21348 :
21350 +DRAGX BUF3, 0: +DRAGY BUF3, 0: +SPEED BYT3, 5, 7
21351 :
21360 +WANDER LDA#0: STA+MONSTER: +WA1 LDX+MONSTER: LDA+FLAG, X: CMP#1: BEQ+WAEND
21361 CMP#0: BNE+WA2: INC+FLAG, X: JMP+WA3: +WA2 LDA#0: STA+FLAG, X: +WA3 LDA+DRAGD, X
21362 TAX: LDA+DDATA, X: STA+TEMP: JSR+WAND: AND#1: BEQ+WA4: JSR+MDL: +WA4 JSR+WAND
21363 AND#2: BEQ+WA5: JSR+MDR: +WA5 JSR+WAND: AND#4: BEQ+WA6: JSR+MDU: +WA6 JSR+WAND
21364 AND#8: BEQ+WA7: JSR+MDD
21365 +WA7 LDX+MONSTER: DEC+DRAGT, X: LDA+DRAGT, X: BNE+WAEND
21366 LDA54299: AND#7: STA+DRAGD, X: LDA54299: OR#64: STA+DRAGT, X
21367 +WAEND INC+MONSTER: LDA+MONSTER: CMP#3: BNE+WA1: RTS
21368 :
21369 +WAND LDA+TEMP: LDX+MONSTER: RTS
21370 :
21371 +DRAGD BUF3, 0: +DRAGT BUF3, 0: +TEMP BYT0: +DDATA BYT4, 6, 2, 10, 8, 9, 1, 5
21399 /-----/
2200 +RANDOMIZE
2201 LDA#0: STA+OBJECT: +RAN1 LDX+OBJECT: LDA+NOTRD, X: STA+NOTR: JSR+RANR
2202 JSR+PLACEOBJECT: INC+OBJECT: LDA+OBJECT: CMP#7: BNE+RAN1: LDA#0: STA+NOTR
2203 LDA#0: STA+MONSTER: +RAN2 JSR+RANR: JSR+PLACEMONSTER: INC+MONSTER: LDA+MONSTER
2204 CMP#4: BNE+RAN2: RTS
2205 :
2210 +NOTRD BYT0, 4, 5, 6, 0, 0, 5
2211 :
2220 +RANR LDA54299: AND#15: BEQ+RANR: CMP#14: BEQ+RANR: CMP#15: BEQ+RANR: CMP+NOTR
2221 BEQ+RANR: STA+R: TAX: LDA+ROOMTYPE, X: TAX: LDA+NXD, X: STA7: LDA+NYD, X: STA8
2222 +RANR1 LDA54299: AND#63: STA5: SEC: SBC7: BCS+RANR1: +RANR2 LDA54299: AND#63

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22223 STA6:SEC:SBC8:BCS+RANR2:LDA+MAPSTARTLD,X:STA3:LDA+MAPSTARTHD,X:STA4:LDY6
22224 CPY#0:BEQ+RANR4:+RANR3 LDA3:CLC:ADC7:STA3:LDA4:ADCH8:STA4:DEY:CPY#0
22225 BNE+RANR3:+RANR4 SEI:LDY#53:STY1:LDY5:LDA(3),Y:LDY#55:STY1:CLI:CMPI#32
22226 BNE+RANR1:LDA5:STA+0XH:LDA6:STA+0YH:+RANR5 LDA54299:AND#7:STA+0XL
22227 SEC:SBC+SXD,X:BCS+RANR5:+RANR6 LDA54299:AND#7:STA+0YL:SEC:SBC+SYD,X
22228 BCS+RANR6:RTS
22229 :
22230 +NOTR BYT0
22231 :
22232 +PLACEOBJECT LDX+OBJECT:LDA+0XL:STA+OBJXL,X:LDA+0XH:STA+OBJXH,X:LDA+0YL
22233 STA+OBJYL,X:LDA+0YH:STA+OBJYH,X:LDA+R:STA+OBJR,X:JSR+ARRANGEOBJECT:RTS
22234 :
22235 +PLACEMONSTER LDX+MONSTER:LDA+0XL:STA+MONXL,X:LDA+0XH:STA+MONXH,X:LDA+0YL
22236 STA+MONYL,X:LDA+0YH:STA+MONYH,X:LDA+R:STA+MONR,X:RTS
22237 /-----/
22238 +MOVEBAT LDA+BATOBJECT:CMPI#255:BEQ+MBAT:CMPI+INVENTORY:BNE+MBAT:RTS
22239 +MBAT LDA#3:STA+MONSTER:LDA+TAKETIMER:BEQ+MBAT1:DEC+TAKETIMER:JMP+MB1
22240 +MBAT1 LDA+BATOBJECT:CMPI#255:BEQ+MBAT2:LDA54299:ORA#128:STA+TAKETIMER
22241 LDA#255:STA+BATOBJECT:JSR+CHANGEBDIR:JMP+MB1
22242 :
22243 +MBAT2 LDX#3:JSR+MROUT:LDA+0X:STA+POSX:LDA+0Y:STA+POSY:LDA#0:STA+NUM
22244 +MB0 LDX+NUM:LDA+PRIORITY,X:STA+OBJECT:LDX#3:LDA+MONR,X:LDX+OBJECT
22245 CMP+OBJR,X:BNE+MB0B:JSR+OROUT:LDA3:STA+DESX:LDA4:STA+DESY:JSR+BATTAKE
22246 LDA+FLAG:BEQ+MB0B:CMPI#3:BNE+MB0A:LDA+OBJECT:STA+BATOBJECT:LDA54299
22247 ORA#128:STA+TAKETIMER:JSR+CHANGEBDIR:+MB0A RTS:+MB0B INC+NUM:LDA+NUM:CMPI#7
22248 BNE+MB0
22249 :
22250 +MB1 LDA+BATDIR:TAX:LDA+DDATA,X:STA+TEMP:AND#1:BEQ+MB2:JSR+MML:+MB2
22251 LDA+TEMP:AND#2:BEQ+MB3:JSR+MMR:+MB3 LDA+TEMP:AND#4:BEQ+MB4:JSR+MMU:+MB4
22252 LDA+TEMP:AND#8:BEQ+MB5:JSR+MMD:+MB5 DEC+BATTIMER:LDA+BATTIMER:BNE+MBEND
22253 JSR+CHANGEBDIR
22254 :
22255 +MBEND LDA+BATOBJECT:CMPI#255:BNE+MBEND1:RTS:+MBEND1 STA+OBJECT:TAX
22256 LDA+MONXL+3:STA+OBJXL,X:LDA+MONXH+3:STA+OBJXH,X:LDA+MONYL+3:STA+OBJYL,X
22257 LDA+MONYH+3:STA+OBJYH,X:LDA+MONR+3:STA+OBJR,X:JSR+ARRANGEOBJECT:RTS
22258 :
22259 +BATDIR BYT0:+BATTIMER BYT0:+BATOBJECT BYT0:+TAKETIMER BYT0
22260 +PRIORITY BYT6,2,4,1,3,5,0:+NUM BYT0
22261 :
22262 +BATTAKE
22263 LDA+POSX:CLC:ADC+WX:SEC:SBC+DESX:BCC+BEND:LDA+DESX:CLC:ADC+WX:SEC:SBC+POSX
22264 BCC+BEND:LDA+POSY:CLC:ADC+WY:SEC:SBC+DESY:BCC+BEND:LDA+DESY:CLC:ADC+WY:SEC
22265 SBC+POSY:BCC+BEND:LDA#1:STA+FLAG:LDA+DESX:SEC:SBC+POSX:BNE+B1:INC+FLAG
22266 JMP+B3:+B1 BCS+B2:JSR+MML:JMP+B3:+B2 JSR+MMR:+B3 LDA+DESY:SEC:SBC+POSY

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222235 BNE←B4: INC←FLAG: JMP←B6: ←B4 BCS←B5: JSR←MMU: JMP←B6: ←B5 JSR←MMD: ←B6 RTS
222236 ←BEND LDA#0: STA←FLAG: RTS
222237 /-----
222238 PASS2:END
```