


```

VV      VV      AAAAAA  XX      XX      IIIIII  NN      NN      SSSSSSSS  TTTTTTTTTT
VV      VV      AAAAAA  XX      XX      IIIIII  NN      NN      SSSSSSSS  TTTTTTTTTT
VV      VV      AA       AA      XX      XX      II       NN      NN      SS       TT
VV      VV      AA       AA      XX      XX      II       NN      NN      SS       TT
VV      VV      AA       AA      XX      XX      II       NNNN   NN      SS       TT
VV      VV      AA       AA      XX      XX      II       NNNN   NN      SS       TT
VV      VV      AA       AA      XX      XX      II       NN      NN      SSSSSS  TT
VV      VV      AA       AA      XX      XX      II       NN      NN      SSSSSS  TT
VV      VV      AAAAAAAA  XX      XX      II       NN      NNNN   SS       TT
VV      VV      AAAAAAAA  XX      XX      II       NN      NNNN   SS       TT
VV      VV      AA       AA      XX      XX      II       NN      NN      SS       TT
VV      VV      AA       AA      XX      XX      II       NN      NN      SS       TT
VV      VV      AA       AA      XX      XX      IIIIII  NN      NN      SSSSSSSS  TT
VV      VV      AA       AA      XX      XX      IIIIII  NN      NN      SSSSSSSS  TT

```

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS

```

.....

```
1 0001 0 MODULE libsvax_inst (IDENT = 'V04-000') =
2 0002 1 BEGIN
3 0003 1
4 0004 1 **
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 FUNCTIONAL DESCRIPTION:
31 0031 1
32 0032 1 This module defines a table which describes the VAX-11
33 0033 1 instruction set.
34 0034 1
35 0035 1 Author: Tim Halvorsen, 09-feb-1981
36 0036 1
37 0037 1 Modified by:
38 0038 1
39 0039 1 V001 TMH0001 Tim Halvorsen 09-Aug-1981
40 0040 1 Remove SHR psect attribute so linker doesn't generate a
41 0041 1 non-crf writable section, and the imgact doesn't try to map
42 0042 1 a read/write shared section to the .EXE file.
43 0043 1 --
```

```
: 45      0044 1 |  
: 46      0045 1 | Require files:  
: 47      0046 1 |  
: 48      0047 1 |  
: 49      0048 1 SWITCHES LIST(REQUIRE);  
: 50      0049 1 REQUIRE 'SRCS:VAXOPS';
```

! MACROS TO BUILD AND REFERENCE OPINFO TABLE.

VAXOPS.REQ - OP CODE TABLE FOR VAX INSTRUCTIONS

Version: 'V04-000'

```

*****
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```

Author: KEVIN PAMMETT, MARCH 2, 1977.

Modified by:

```

V001   TMH0001   Tim Halvorsen   09-Feb-1981
        Rewrite macro invocations to supply the entire SRM
        operand specification, to allow checking for literals
        in write operands, and other invalid conditions.

```

LITERAL

OPERAND ACCESS TYPE (A,B,M,R,V,W) - 1 BIT WIDE

```

ACCESS_A = 0,      ! EFFECTIVE ADDRESS
ACCESS_B = 0,      ! BRANCH DISPLACEMENT
ACCESS_R = 1,      ! OPERAND IS READ-ONLY
ACCESS_W = 0,      ! OPERAND IS WRITE-ONLY
ACCESS_M = 0,      ! OPERAND IS MODIFIED
ACCESS_V = 0,      ! ADDRESS A SET OF 2 REGISTERS

```

OPERAND DATA TYPE (B,W,L,O,F,D,G,H,V) - 3 BITS WIDE

```

DATA_B = 0,        ! BYTE CONTEXT
DATA_W = 1,        ! WORD CONTEXT

```

R0050 1
R0051 1
R0052 1
R0053 1
R0054 1
R0055 1
R0056 1
R0057 1
R0058 1
R0059 1
R0060 1
R0061 1
R0062 1
R0063 1
R0064 1
R0065 1
R0066 1
R0067 1
R0068 1
R0069 1
R0070 1
R0071 1
R0072 1
R0073 1
R0074 1
R0075 1
R0076 1
R0077 1
R0078 1
R0079 1
R0080 1
R0081 1
R0082 1
R0083 1
R0084 1
R0085 1
R0086 1
R0087 1
R0088 1
R0089 1
R0090 1
R0091 1
R0092 1
R0093 1
R0094 1
R0095 1
R0096 1
R0097 1
R0098 1
R0099 1
R0100 1
R0101 1
R0102 1
R0103 1
R0104 1
R0105 1
R0106 1


```
: MR0164 1 OPDEF(NAME, OPC, OP1, OP2, OP3, OP4, OP5, OP6) =
: MR0165 1 %ASSIGN($BRANCH_TYPE,NO_BRANCH)
: 0166 1 %RAD50 11 NAME, ! Opcode name in RAD50
: 0167 1 %IF GET_1ST(%EXPLODE(NAME)) EQL 'x' ! If undefined opcode,
: MR0168 1 AND GET_2ND(%EXPLODE(NAME)) EQL 'x'
: MR0169 1 %THEN
: MR0170 1 NOT_AN_OP ! then no operands
: MR0171 1 %ELSE
: MR0172 1 %LENGTH-2 ! else, number of operands
: MR0173 1 %FI OR
: MR0174 1 OPERAND(OP1)^4, ! Define each operand
: MR0175 1 OPERAND(OP2) OR
: MR0176 1 OPERAND(OP3)^4,
: MR0177 1 OPERAND(OP4) OR
: MR0178 1 OPERAND(OP5)^4,
: MR0179 1 OPERAND(OP6) OR
: R0180 1 $BRANCH_TYPE^4% ! Define branch context
: R0181 1
: R0182 1
: R0183 1 ! MACROS TO ACCESS THE FIELDS.
: R0184 1
: R0185 1
: R0186 1 MACRO
: R0187 1 OP_NAME = 0,0,32,0%, ! OPCODE MNEUMONIC (6 RAD50 CHARS)
: R0188 1 OP_NUMOPS = 4,0,4,0%, ! NUMBER OF OPERANDS
: R0189 1 OP_CONTEXT(1) = 4+1/2, ((1) AND 1)*4, 3, 0 %, ! OPERAND CONTEXT
: R0190 1 OP_DATATYPE(1) = 4+1/2, ((1) AND 1)*4 + 3, 1, 0 %, ! OPERAND DATA TYPE
: R0191 1 OP_BR_TYPE = 7,4,4,0 %; ! CONTEXT OF BRANCH DISPLACEMENT
: R0192 1
: R0193 1 LITERAL
: R0194 1 OPTSIZE = 8, ! EACH OPINFO BLOCK IS 9 BYTES LONG.
: R0195 1 MAXOPCODE = 'X'FD', ! MAXIMUM VAX OP CODE WHICH IS VALID.
: R0196 1 MAXOPRNS = 6, ! MAXIMUM NUMBER OF OPERANDS PER INSTRUCTION.
: R0197 1 ! NO INSTRUCTION THAT HAS BRANCH TYPE ADDRESSING
: R0198 1 ! CAN HAVE THIS MANY OPERANDS UNLESS WE CHANGE
: R0199 1 ! THE ORGANIZATION OF EACH OPINFO BLOCK.
: R0200 1 BITS PER BYTE = 8, ! NUMBER OF BITS IN A VAX BYTE.
: R0201 1 AP_REG = 12, ! NUMBER OF PROCESSOR REGISTER, 'AP'.
: R0202 1 PC_REG = 15, ! NUMBER OF PROCESSOR REGISTER, 'PC'.
: R0203 1
: R0204 1 PC_REL_MODE = 8, ! ADDRESSING MODE: (PC)+
: R0205 1 AT_PC_REL_MODE = 9, ! ADDRESSING MODE: @(PC)+
: R0206 1 INDEXING_MODE = 4, ! ADDRESSING MODE: XXX[RX]
: R0207 1
: R0208 1 SHORT_LIT_AMODE = 0, ! Short literals fit right into the mode byte.
: R0209 1 REGISTER_AMODE = 5, ! Register mode addressing.
: R0210 1 REG_DEF_AMODE = 6, ! Register deferred addressing mode.
: R0211 1 AUTO_DEC_AMODE = 7, ! Auto decrement addressing mode.
: R0212 1 AUTO_INC_AMODE = 8, ! Auto Increment addressing mode.
: R0213 1 DISP_BYTE_AMODE = 10, ! All of the displacement modes start from
: R0214 1 ! here. See ENC_OPERAND() IN DBGENC.B32
: R0215 1 DISP_LONG_AMODE = 14,
: R0216 1 OP_CR_SIZE = 6; ! SIZE, IN ASCII CHARS, OF OPCODE MNEUMONIC.
: R0217 1
: R0218 1 MACRO
: R0219 1 DSPL_MODE = 0,4,4,0 %, ! ADDRESSING MODE BITS FROM THE DOMINANT MODE
: R0220 1 ! BYTE OF AN OPERAND REFERENCE.
```

```
R0221 1 DOM_MOD_FIELD = 0,5,2,1 %,  
R0222 1  
R0223 1 : BITS WHICH WE PICK UP TO DIFFERENTIATE CERTAIN  
R0224 1 SHORT_LITERAL = 0,0,6,0 %,  
R0225 1 : TYPES OF DOMINANT MODES. SEE DBGMAC.B32  
R0226 1 : HOW TO EXTRACT A 'SHORT LITERAL' FROM  
R0227 1 : THE INSTRUCTION STREAM. SEE SRM.  
R0228 1 AMODE = 0,4,4,1 %,  
R0229 1 : BITS OF DOMINANT MODE ADDRESSING BYTE  
R0230 1 : WHICH SPECIFY THE ACTUAL MODE.  
R0231 1 AREG = 0,0,4,0 %,  
R0232 1 : BITS OF DOMINANT MODE ADDRESSING BYTE  
R0233 1 : WHICH SPECIFY REGISTER NUMBER, ETC.  
R0234 1 NOT AN OP = 15 %,  
R0235 1 : OP NUMOPS INDICATOR FOR UNASSIGNED OPCODES.  
R0236 1 RESERVED = 'UNUSED' %;  
R0237 1 : NAME OF RESERVED OPCODES.  
R0238 1  
R0239 1  
R0240 1 MACRO  
R0241 1 NEXT_FIELD(INDEX) : USED TO GET THE ADDRESS OF THE NEXT  
R0242 1 : FIELD OF A BLOCK.  
R0243 1 = (INDEX),0,0,0 %;  
R0244 1  
R0245 1 ! MACROS AND LITERALS SPECIFICALLY FOR INSTRUCTON ENCODING.  
R0246 1 ! ('MACHINE -IN'.)  
R0247 1  
R0248 1 LITERAL  
R0249 1 BAD_OPCODE = 1, : CAN'T INTERPRET THE GIVEN ASCII OPCODE.  
R0250 1 BAD_OPERAND = 2, : UNDECODABLE OPERAND REFERENCE.  
R0251 1 BAD_OPRNDS = 3, : WRONG NUMBER OF OPERANDS.  
R0252 1 INS_RESERVED = 4; : GIVEN OPCODE IS RESERVED.  
R0253 1  
R0254 1 LITERAL  
R0255 1 ! We only have to special-case a few OPCODES,  
R0256 1  
R0257 1  
R0258 1 OP_CASEB = %X'8F',  
R0259 1 OP_CASEW = %X'AF',  
R0260 1 OP_CASEL = %X'CF',  
R0261 1  
R0262 1 !++  
R0263 1 :  
R0264 1 : TOKEN VALUES USED FOR ENCODING/DECODING  
R0265 1 :--  
R0266 1 LITERAL  
R0267 1 indexing_token = 240,  
R0268 1 val_token = 241,  
R0269 1 byte_val_token = val_token + %SIZE(VECTOR[1,BYTE]), : 242  
R0270 1 word_val_token = val_token + %SIZE(VECTOR[1,WORD]), : 243  
R0271 1 brch_token = 244,  
R0272 1 long_val_token = val_token + %SIZE(VECTOR[1,LONG]), : 245  
R0273 1 at_reg_token = 246,  
R0274 1 register_token = 247,  
R0275 1 lit_token = 248,  
R0276 1 bad_token = 249;  
R0277 1  
R0278 1 ! The following structure declaration selects the proper opcode  
R0279 1 ! table by looking for the extended opcode opcode(s).
```



```
: R0278 1 STRUCTURE OPCODE_TBL [OPC,O,P,S,E] =  
: R0279 2 BEGIN  
: R0280 2 EXTERNAL LIB$GB_OPINFO1 : BLOCKVECTOR[256,OPTSIZE,BYTE];  
: R0281 2 EXTERNAL LIB$GB_OPINFO2 : BLOCKVECTOR[256,OPTSIZE,BYTE];  
: R0282 2 LOCAL OFFSET;  
: R0283 2 OFFSET = 0;  
: R0284 2 IF (OPC AND %X'FF') NEQ %X'FD'  
: R0285 2 THEN LIB$GB_OPINFO1[OPC,OFFSET,0,8,0] ! One byte opcodes  
: R0286 2 ELSE LIB$GB_OPINFO2[(OPC<-8),OFFSET,0,8,0] ! Two byte opcodes  
: R0287 1 END<P,S,E>;  
: R0288 1  
: R0289 1 ! VAXOPS.REQ - last line
```

```
51 0290 1
52 0291 1 PSECT
53 0292 1 GLOBAL = z$debug_code(PIC,WRITE,EXECUTE,ALIGN(2));
54 0293 1
55 0294 1 GLOBAL BIND
56 0295 1 LIB$GB_OPINFO = 0 : OPCODE_TBL;
57 0296 1
58 0297 1 +-
59 0298 1 ONE LINE DESCRIBES EACH VAX OPCODE. THE FIRST ENTRY
60 0299 1 IN EACH LINE IS THE ASSEMBLER MNEMONIC, THE SECOND
61 0300 1 IS THE NUMBER OF OPERANDS THIS INSTRUCTION HAS, AND
62 0301 1 THE THIRD IS THE ACTUAL OPCODE, IN DECIMAL. NOTE THAT
63 0302 1 THE OPCODE IS IGNORED BY THE MACRO - IT IS
64 0303 1 INCLUDED IN THE MACRO CALLS FOR REFERENCE ONLY. THE
65 0304 1 REASON WHY WE DON'T NEED IT IS BECAUSE THE INDEX INTO
66 0305 1 THIS TABLE IS THE OPCODE.
67 0306 1 THE LAST 6 ENTRIES FOR EACH OPCODE GIVE THE 'CONTEXT'
68 0307 1 FOR EACH OF THE POSSIBLE OPERANDS FOR THIS INSTRUCTION.
69 0308 1 BY THIS, WE MEAN EFFECTIVELY 'HOW MUCH OF THE BYTE
70 0309 1 STREAM WOULD BE USED IF THIS OPERAND WERE REFERENCED
71 0310 1 USING A PC-RELATIVE MODE'. SEE THE HEADER FILE,
72 0311 1 VAXOPS.REQ FOR HOW THESE FIELDS ARE DEFINED.
73 0312 1
74 0313 1 --
75 0314 1
76 0315 1 GLOBAL
77 0316 1 LIB$GB_OPINFO1 : VECTOR [256*OPTSIZE, BYTE] INITIAL ( BYTE(
78 0317 1
79 0318 1 OPDEF('HALT ' 0),
80 0319 1 OPDEF('NOP ' 1),
81 0320 1 OPDEF('REI ' 2),
82 0321 1 OPDEF('BPT ' 3),
83 0322 1 OPDEF('RET ' 4),
84 0323 1 OPDEF('RSB ' 5),
85 0324 1 OPDEF('LDPCTX' 6),
86 0325 1 OPDEF('SVPCTX' 7),
87 0326 1 OPDEF('CVTPS ' 8, 'RW', 'AB', 'RW', 'AB'),
88 0327 1 OPDEF('CVTSP ' 9, 'RW', 'AB', 'RW', 'AB'),
89 0328 1 OPDEF('INDEX ' 10, 'R', 'RL', 'RL', 'RL', 'RL', 'WL'),
90 0329 1 OPDEF('CRC ' 11, 'AB', 'RL', 'RW', 'AB'),
91 0330 1 OPDEF('PROBER' 12, 'RB', 'RW', 'AB'),
92 0331 1 OPDEF('PROBEW' 13, 'RB', 'RW', 'AB'),
93 0332 1 OPDEF('INSQUE' 14, 'AB', 'WL'),
94 0333 1 OPDEF('REMQUE' 15, 'AB', 'WL'),
95 0334 1 OPDEF('BSBB ' 16, 'BB'),
96 0335 1 OPDEF('BRB ' 17, 'BB'),
97 0336 1 OPDEF('BNEQ ' 18, 'BB'),
98 0337 1 OPDEF('BEQL ' 19, 'BB'),
99 0338 1 OPDEF('BGTR ' 20, 'BB'),
100 0339 1 OPDEF('BLEQ ' 21, 'BB'),
101 0340 1 OPDEF('JSB ' 22, 'AB'),
102 0341 1 OPDEF('JMP ' 23, 'AB'),
103 0342 1 OPDEF('BGEQ ' 24, 'BB'),
104 0343 1 OPDEF('BLSS ' 25, 'BB'),
105 0344 1 OPDEF('BGTRU ' 26, 'BB'),
106 0345 1 OPDEF('BLEQU ' 27, 'BB'),
107 0346 1 OPDEF('BVC ' 28, 'BB'),
```



```
165 0404 1 OPDEF ('CVTFD' 86, 'RF', 'WD'),
166 0405 1 OPDEF ('XXX XX' 87),
167 0406 1 OPDEF ('ADAWI' 88, 'RW', 'MW'),
168 0407 1 OPDEF ('XXX XX' 89),
169 0408 1 OPDEF ('XXX XX' 90),
170 0409 1 OPDEF ('XXX XX' 91),
171 0410 1 OPDEF ('INSQHI' 92, 'AB', 'AQ'),
172 0411 1 OPDEF ('INSQTI' 93, 'AB', 'AQ'),
173 0412 1 OPDEF ('REMQHI' 94, 'AQ', 'WL'),
174 0413 1 OPDEF ('REMQTI' 95, 'AQ', 'WL'),
175 0414 1 OPDEF ('ADDD2' 96, 'RD', 'MD'),
176 0415 1 OPDEF ('ADDD3' 97, 'RD', 'RD', 'WD'),
177 0416 1 OPDEF ('SUBD2' 98, 'RD', 'MD'),
178 0417 1 OPDEF ('SUBD3' 99, 'RD', 'RD', 'WD'),
179 0418 1 OPDEF ('MULD2' 100, 'RD', 'MD'),
180 0419 1 OPDEF ('MULD3' 101, 'RD', 'RD', 'WD'),
181 0420 1 OPDEF ('DIVD2' 102, 'RD', 'MD'),
182 0421 1 OPDEF ('DIVD3' 103, 'RD', 'RD', 'WD'),
183 0422 1 OPDEF ('CVTDB' 104, 'RD', 'WB'),
184 0423 1 OPDEF ('CVTDW' 105, 'RD', 'WW'),
185 0424 1 OPDEF ('CVTDL' 106, 'RD', 'WL'),
186 0425 1 OPDEF ('CVTRDL' 107, 'RD', 'WL'),
187 0426 1 OPDEF ('CVTBD' 108, 'RB', 'WD'),
188 0427 1 OPDEF ('CVTWD' 109, 'RW', 'WD'),
189 0428 1 OPDEF ('CVTLD' 110, 'RL', 'WD'),
190 0429 1 OPDEF ('ACBD' 111, 'RD', 'RD', 'MD', 'BW'),
191 0430 1 OPDEF ('MOVD' 112, 'RD', 'WD'),
192 0431 1 OPDEF ('CMPD' 113, 'RD', 'RD'),
193 0432 1 OPDEF ('MNEG' 114, 'RD', 'WD'),
194 0433 1 OPDEF ('TSTD' 115, 'RD'),
195 0434 1 OPDEF ('EMODD' 116, 'RD', 'RB', 'RD', 'WL', 'WD'),
196 0435 1 OPDEF ('POLYD' 117, 'RD', 'RW', 'AB'),
197 0436 1 OPDEF ('CVTDF' 118, 'RD', 'WF'),
198 0437 1 OPDEF ('XXX XX' 119),
199 0438 1 OPDEF ('ASHL' 120, 'RB', 'RL', 'WL'),
200 0439 1 OPDEF ('ASHQ' 121, 'RB', 'RQ', 'WQ'),
201 0440 1 OPDEF ('EMUL' 122, 'RL', 'RL', 'RL', 'WQ'),
202 0441 1 OPDEF ('EDIV' 123, 'RL', 'RQ', 'WL', 'WL'),
203 0442 1 OPDEF ('CLRQ' 124, 'WQ'),
204 0443 1 OPDEF ('MOVQ' 125, 'RQ', 'WQ'),
205 0444 1 OPDEF ('MOVAQ' 126, 'AQ', 'WL'),
206 0445 1 OPDEF ('PUSHAQ' 127, 'AQ'),
207 0446 1 OPDEF ('ADDB2' 128, 'RB', 'MB'),
208 0447 1 OPDEF ('ADDB3' 129, 'RB', 'RB', 'WB'),
209 0448 1 OPDEF ('SUBB2' 130, 'RB', 'MB'),
210 0449 1 OPDEF ('SUBB3' 131, 'RB', 'RB', 'WB'),
211 0450 1 OPDEF ('MULB2' 132, 'RB', 'MB'),
212 0451 1 OPDEF ('MULB3' 133, 'RB', 'RB', 'WB'),
213 0452 1 OPDEF ('DIVB2' 134, 'RB', 'MB'),
214 0453 1 OPDEF ('DIVB3' 135, 'RB', 'RB', 'WB'),
215 0454 1 OPDEF ('BISB2' 136, 'RB', 'MB'),
216 0455 1 OPDEF ('BISB3' 137, 'RB', 'RB', 'WB'),
217 0456 1 OPDEF ('BICB2' 138, 'RB', 'MB'),
218 0457 1 OPDEF ('BICB3' 139, 'RB', 'RB', 'WB'),
219 0458 1 OPDEF ('XORB2' 140, 'RB', 'MB'),
220 0459 1 OPDEF ('XORB3' 141, 'RB', 'RB', 'WB'),
221 0460 1 OPDEF ('MNEGB' 142, 'RB', 'WB'),
```

222	0461	1	OPDEF ('CASEB	143	'RB'	'RB'	'RB')
223	0462	1	OPDEF ('MOV8	144	'RB'	'WB')
224	0463	1	OPDEF ('CMP8	145	'RB'	'RB')
225	0464	1	OPDEF ('MCOMB	146	'RB'	'WB')
226	0465	1	OPDEF ('BIT8	147	'RB'	'MB')
227	0466	1	OPDEF ('CLR8	148	'WB')	
228	0467	1	OPDEF ('TST8	149	'RB')	
229	0468	1	OPDEF ('INCB	150	'MB')	
230	0469	1	OPDEF ('DECB	151	'MB')	
231	0470	1	OPDEF ('CVTBL	152	'RB'	'WL')
232	0471	1	OPDEF ('CVTBW	153	'RB'	'WW')
233	0472	1	OPDEF ('MOVZBL	154	'RB'	'WL')
234	0473	1	OPDEF ('MOVZBW	155	'RB'	'WW')
235	0474	1	OPDEF ('ROTL	156	'RB'	'RL'	'WL')
236	0475	1	OPDEF ('ACBB	157	'RB'	'RB'	'MB' 'BW')
237	0476	1	OPDEF ('MOVAB	158	'AB'	'WL')
238	0477	1	OPDEF ('PUSHAB	159	'AB')	
239	0478	1	OPDEF ('ADDW2	160	'RW'	'MW')
240	0479	1	OPDEF ('ADDW3	161	'RW'	'RW'	'WW')
241	0480	1	OPDEF ('SUBW2	162	'RW'	'MW')
242	0481	1	OPDEF ('SUBW3	163	'RW'	'RW'	'WW')
243	0482	1	OPDEF ('MULW2	164	'RW'	'MW')
244	0483	1	OPDEF ('MULW3	165	'RW'	'RW'	'WW')
245	0484	1	OPDEF ('DIVW2	166	'RW'	'MW')
246	0485	1	OPDEF ('DIVW3	167	'RW'	'RW'	'WW')
247	0486	1	OPDEF ('BISW2	168	'RW'	'MW')
248	0487	1	OPDEF ('BISW3	169	'RW'	'RW'	'WW')
249	0488	1	OPDEF ('BICW2	170	'RW'	'MW')
250	0489	1	OPDEF ('BICW3	171	'RW'	'RW'	'WW')
251	0490	1	OPDEF ('XORW2	172	'RW'	'MW')
252	0491	1	OPDEF ('XORW3	173	'RW'	'RW'	'WW')
253	0492	1	OPDEF ('MNEGW	174	'RW'	'MW')
254	0493	1	OPDEF ('CASEW	175	'RW'	'RW'	'RW')
255	0494	1	OPDEF ('MOVW	176	'RW'	'MW')
256	0495	1	OPDEF ('CMPW	177	'RW'	'RW')
257	0496	1	OPDEF ('MCOMW	178	'RW'	'MW')
258	0497	1	OPDEF ('BITW	179	'RW'	'RW')
259	0498	1	OPDEF ('CLRW	180	'WW')	
260	0499	1	OPDEF ('TSTW	181	'RW')	
261	0500	1	OPDEF ('INCW	182	'MW')	
262	0501	1	OPDEF ('DECW	183	'MW')	
263	0502	1	OPDEF ('BISPSW	184	'RW')	
264	0503	1	OPDEF ('BICPSW	185	'RW')	
265	0504	1	OPDEF ('POPR	186	'RW')	
266	0505	1	OPDEF ('PUSHR	187	'RW')	
267	0506	1	OPDEF ('CHMK	188	'RW')	
268	0507	1	OPDEF ('CHME	189	'RW')	
269	0508	1	OPDEF ('CHMS	190	'RW')	
270	0509	1	OPDEF ('CHMU	191	'RW')	
271	0510	1	OPDEF ('ADDL2	192	'RL'	'ML')
272	0511	1	OPDEF ('ADDL3	193	'RL'	'ML'	'WL')
273	0512	1	OPDEF ('SUBL2	194	'RL'	'ML')
274	0513	1	OPDEF ('SUBL3	195	'RL'	'ML'	'WL')
275	0514	1	OPDEF ('MULL2	196	'RL'	'ML')
276	0515	1	OPDEF ('MULL3	197	'RL'	'ML'	'WL')
277	0516	1	OPDEF ('DIVL2	198	'RL'	'ML')
278	0517	1	OPDEF ('DIVL3	199	'RL'	'ML'	'WL')

279	0518	1	OPDEF ('BISL2	200	'RL'	'ML')		
280	0519	1	OPDEF ('BISL3	201	'RL'	'RL'	'WL')	
281	0520	1	OPDEF ('BICL2	202	'RL'	'ML')		
282	0521	1	OPDEF ('BICL3	203	'RL'	'RL'	'WL')	
283	0522	1	OPDEF ('XORL2	204	'RL'	'ML')		
284	0523	1	OPDEF ('XORL3	205	'RL'	'RL'	'WL')	
285	0524	1	OPDEF ('MNEGL	206	'RL'	'ML')		
286	0525	1	OPDEF ('CASEL	207	'RL'	'RL'	'RL')	
287	0526	1	OPDEF ('MOVL	208	'RL'	'WL')		
288	0527	1	OPDEF ('CMPL	209	'RL'	'RL')		
289	0528	1	OPDEF ('MCOML	210	'RL'	'WL')		
290	0529	1	OPDEF ('BITL	211	'RL'	'RL')		
291	0530	1	OPDEF ('CLRL	212	'WL')			
292	0531	1	OPDEF ('TSTL	213	'RL')			
293	0532	1	OPDEF ('INCL	214	'ML')			
294	0533	1	OPDEF ('DECL	215	'ML')			
295	0534	1	OPDEF ('ADWC	216	'RL'	'ML')		
296	0535	1	OPDEF ('SBWC	217	'RL'	'ML')		
297	0536	1	OPDEF ('MTPR	218	'RL'	'RL')		
298	0537	1	OPDEF ('MFPR	219	'RL'	'WL')		
299	0538	1	OPDEF ('MOVPSL	220	'WL')			
300	0539	1	OPDEF ('PUSHL	221	'RL')			
301	0540	1	OPDEF ('MOVAL	222	'AL'	'WL')		
302	0541	1	OPDEF ('PUSHAL	223	'AL')			
303	0542	1	OPDEF ('BBS	224	'RL'	'VB'	'BB')	
304	0543	1	OPDEF ('BBC	225	'RL'	'VB'	'BB')	
305	0544	1	OPDEF ('BBSS	226	'RL'	'VB'	'BB')	
306	0545	1	OPDEF ('BBCS	227	'RL'	'VB'	'BB')	
307	0546	1	OPDEF ('BBSC	228	'RL'	'VB'	'BB')	
308	0547	1	OPDEF ('BBCC	229	'RL'	'VB'	'BB')	
309	0548	1	OPDEF ('BBSSI	230	'RL'	'VB'	'BB')	
310	0549	1	OPDEF ('BBCCI	231	'RL'	'VB'	'BB')	
311	0550	1	OPDEF ('BLBS	232	'RL'	'BB')		
312	0551	1	OPDEF ('BLBC	233	'RL'	'BB')		
313	0552	1	OPDEF ('FFS	234	'RL'	'RB'	'VB'	'WL')
314	0553	1	OPDEF ('FFC	235	'RL'	'RB'	'VB'	'WL')
315	0554	1	OPDEF ('CMPV	236	'RL'	'RB'	'VB'	'RL')
316	0555	1	OPDEF ('CMPZV	237	'RL'	'RB'	'VB'	'RL')
317	0556	1	OPDEF ('EXTV	238	'RL'	'RB'	'VB'	'WL')
318	0557	1	OPDEF ('EXTZV	239	'RL'	'RB'	'VB'	'WL')
319	0558	1	OPDEF ('INSV	240	'RL'	'RL'	'RB'	'VB')
320	0559	1	OPDEF ('ACBL	241	'RL'	'RL'	'ML'	'BW')
321	0560	1	OPDEF ('AOBLSS	242	'RL'	'ML'	'BB')	
322	0561	1	OPDEF ('AOBLEQ	243	'RL'	'ML'	'BB')	
323	0562	1	OPDEF ('SOBGEG	244	'ML'	'BB')		
324	0563	1	OPDEF ('SOBGTR	245	'ML'	'BB')		
325	0564	1	OPDEF ('CVTLB	246	'RL'	'WB')		
326	0565	1	OPDEF ('CVTLW	247	'RL'	'WB')		
327	0566	1	OPDEF ('ASHP	248	'RB'	'RW'	'AB'	'RB', 'RW', 'AB')
328	0567	1	OPDEF ('CVTLP	249	'RL'	'RW'	'AB')	
329	0568	1	OPDEF ('CALLG	250	'AB'	'AB')		
330	0569	1	OPDEF ('CALLS	251	'RL'	'AB')		
331	0570	1	OPDEF ('XFC	252				
332	0571	1	OPDEF ('XXX XX	253				
333	0572	1	OPDEF ('XXX XX	254				
334	0573	1	OPDEF ('XXX XX	255				
335	0574	1						

336 0575 1 : This table is the 2 byte opcode table. It is organized the same
337 0576 1 : as the one byte table. Note that the first byte of the opcode
338 0577 1 : is not present. This means that the code that accesses this table
339 0578 1 : must strip off the 'XX'FD' of the opcode, and use the remainder to
340 0579 1 : access this table.
341 0580 1

342 0581 1 GLOBAL LIB\$GB OPINFO2 : VECTOR[256*OPSIZE, BYTE] INITIAL (BYTE(
343 0582 1 OPDEF('XXX XX', 0).
344 0583 1 OPDEF('XXX XX', 1).
345 0584 1 OPDEF('XXX XX', 2).
346 0585 1 OPDEF('XXX XX', 3).
347 0586 1 OPDEF('XXX XX', 4).
348 0587 1 OPDEF('XXX XX', 5).
349 0588 1 OPDEF('XXX XX', 6).
350 0589 1 OPDEF('XXX XX', 7).
351 0590 1 OPDEF('XXX XX', 8).
352 0591 1 OPDEF('XXX XX', 9).
353 0592 1 OPDEF('XXX XX', 10).
354 0593 1 OPDEF('XXX XX', 11).
355 0594 1 OPDEF('XXX XX', 12).
356 0595 1 OPDEF('XXX XX', 13).
357 0596 1 OPDEF('XXX XX', 14).
358 0597 1 OPDEF('XXX XX', 15).
359 0598 1 OPDEF('XXX XX', 16).
360 0599 1 OPDEF('XXX XX', 17).
361 0600 1 OPDEF('XXX XX', 18).
362 0601 1 OPDEF('XXX XX', 19).
363 0602 1 OPDEF('XXX XX', 20).
364 0603 1 OPDEF('XXX XX', 21).
365 0604 1 OPDEF('XXX XX', 22).
366 0605 1 OPDEF('XXX XX', 23).
367 0606 1 OPDEF('XXX XX', 24).
368 0607 1 OPDEF('XXX XX', 25).
369 0608 1 OPDEF('XXX XX', 26).
370 0609 1 OPDEF('XXX XX', 27).
371 0610 1 OPDEF('XXX XX', 28).
372 0611 1 OPDEF('XXX XX', 29).
373 0612 1 OPDEF('XXX XX', 30).
374 0613 1 OPDEF('XXX XX', 31).
375 0614 1 OPDEF('XXX XX', 32).
376 0615 1 OPDEF('XXX XX', 33).
377 0616 1 OPDEF('XXX XX', 34).
378 0617 1 OPDEF('XXX XX', 35).
379 0618 1 OPDEF('XXX XX', 36).
380 0619 1 OPDEF('XXX XX', 37).
381 0620 1 OPDEF('XXX XX', 38).
382 0621 1 OPDEF('XXX XX', 39).
383 0622 1 OPDEF('XXX XX', 40).
384 0623 1 OPDEF('XXX XX', 41).
385 0624 1 OPDEF('XXX XX', 42).
386 0625 1 OPDEF('XXX XX', 43).
387 0626 1 OPDEF('XXX XX', 44).
388 0627 1 OPDEF('XXX XX', 45).
389 0628 1 OPDEF('XXX XX', 46).
390 0629 1 OPDEF('XXX XX', 47).
391 0630 1 OPDEF('XXX XX', 48).
392 0631 1 OPDEF('XXX XX', 49).

393	0632	1	OPDEF ('CVTDH ' 50. 'RD' 'WH'))
394	0633	1	OPDEF ('CVTGF ' 51. 'RG' 'WF'))
395	0634	1	OPDEF ('XXX XX' 52)
396	0635	1	OPDEF ('XXX XX' 53)
397	0636	1	OPDEF ('XXX XX' 54)
398	0637	1	OPDEF ('XXX XX' 55)
399	0638	1	OPDEF ('XXX XX' 56)
400	0639	1	OPDEF ('XXX XX' 57)
401	0640	1	OPDEF ('XXX XX' 58)
402	0641	1	OPDEF ('XXX XX' 59)
403	0642	1	OPDEF ('XXX XX' 60)
404	0643	1	OPDEF ('XXX XX' 61)
405	0644	1	OPDEF ('XXX XX' 62)
406	0645	1	OPDEF ('XXX XX' 63)
407	0646	1	OPDEF ('ADDG2 ' 64. 'RG' 'MG'))
408	0647	1	OPDEF ('ADDG3 ' 65. 'RG' 'RG' 'WG'))
409	0648	1	OPDEF ('SUBG2 ' 66. 'RG' 'MG'))
410	0649	1	OPDEF ('SUBG3 ' 67. 'RG' 'RG' 'WG'))
411	0650	1	OPDEF ('MULG2 ' 68. 'RG' 'MG'))
412	0651	1	OPDEF ('MULG3 ' 69. 'RG' 'RG' 'WG'))
413	0652	1	OPDEF ('DIVG2 ' 70. 'RG' 'MG'))
414	0653	1	OPDEF ('DIVG3 ' 71. 'RG' 'RG' 'WG'))
415	0654	1	OPDEF ('CVTGB ' 72. 'RG' 'WB'))
416	0655	1	OPDEF ('CVTGW ' 73. 'RG' 'WW'))
417	0656	1	OPDEF ('CVTGL ' 74. 'RG' 'WL'))
418	0657	1	OPDEF ('CVTRGL ' 75. 'RG' 'WL'))
419	0658	1	OPDEF ('CVTBG ' 76. 'RB' 'WG'))
420	0659	1	OPDEF ('CVTWG ' 77. 'RW' 'WG'))
421	0660	1	OPDEF ('CVTLG ' 78. 'RL' 'WG'))
422	0661	1	OPDEF ('ACBG ' 79. 'RG' 'RG' 'MG' 'BW'))
423	0662	1	OPDEF ('MOVG ' 80. 'RG' 'WG'))
424	0663	1	OPDEF ('CMPG ' 81. 'RG' 'RG'))
425	0664	1	OPDEF ('MNEGG ' 82. 'RG' 'WG'))
426	0665	1	OPDEF ('TSTG ' 83. 'RG'))
427	0666	1	OPDEF ('EMODG ' 84. 'RG' 'RW' 'RG' 'WL' 'WG'))
428	0667	1	OPDEF ('POLYG ' 85. 'RG' 'RW' 'AB'))
429	0668	1	OPDEF ('CVTGH ' 86. 'RG' 'WH'))
430	0669	1	OPDEF ('XXX XX' 87)
431	0670	1	OPDEF ('XXX XX' 88)
432	0671	1	OPDEF ('XXX XX' 89)
433	0672	1	OPDEF ('XXX XX' 90)
434	0673	1	OPDEF ('XXX XX' 91)
435	0674	1	OPDEF ('XXX XX' 92)
436	0675	1	OPDEF ('XXX XX' 93)
437	0676	1	OPDEF ('XXX XX' 94)
438	0677	1	OPDEF ('XXX XX' 95)
439	0678	1	OPDEF ('ADDH2 ' 96. 'RH' 'MH'))
440	0679	1	OPDEF ('ADDH3 ' 97. 'RH' 'RH' 'WH'))
441	0680	1	OPDEF ('SUBH2 ' 98. 'RH' 'MH'))
442	0681	1	OPDEF ('SUBH3 ' 99. 'RH' 'RH' 'WH'))
443	0682	1	OPDEF ('MULH2 ' 100. 'RH' 'MH'))
444	0683	1	OPDEF ('MULH3 ' 101. 'RH' 'RH' 'WH'))
445	0684	1	OPDEF ('DIVH2 ' 102. 'RH' 'MH'))
446	0685	1	OPDEF ('DIVH3 ' 103. 'RH' 'RH' 'WH'))
447	0686	1	OPDEF ('CVTHB ' 104. 'RH' 'WB'))
448	0687	1	OPDEF ('CVTHW ' 105. 'RH' 'WW'))
449	0688	1	OPDEF ('CVTHL ' 106. 'RH' 'WL'))

450	0689	1	OPDEF ('CVTRHL'	107	'RH'	'WL')
451	0690	1	OPDEF ('CVTBH'	108	'RB'	'WH')
452	0691	1	OPDEF ('CVTWH'	109	'RW'	'WH')
453	0692	1	OPDEF ('CVTLH'	110	'RL'	'WH')
454	0693	1	OPDEF ('ACBH'	111	'RH'	'RH', 'BH', 'BW')
455	0694	1	OPDEF ('MOVH'	112	'RH'	'WH')
456	0695	1	OPDEF ('CMPH'	113	'RH'	'RH')
457	0696	1	OPDEF ('MNEGH'	114	'RH'	'WH')
458	0697	1	OPDEF ('TSTH'	115	'RH'	'RH')
459	0698	1	OPDEF ('EMODH'	116	'RH'	'RH', 'WL', 'WH')
460	0699	1	OPDEF ('PULVH'	117	'RH'	'RH', 'AB')
461	0700	1	OPDEF ('CVTHG'	118	'RH'	'WG')
462	0701	1	OPDEF ('XXX XX'	119		
463	0702	1	OPDEF ('XXX XX'	120		
464	0703	1	OPDEF ('XXX XX'	121		
465	0704	1	OPDEF ('XXX XX'	122		
466	0705	1	OPDEF ('XXX XX'	123		
467	0706	1	OPDEF ('CLRH'	124	'WH')	
468	0707	1	OPDEF ('MOVO'	125	'RH'	'WH')
469	0708	1	OPDEF ('MOVAH'	126	'AH'	'WL')
470	0709	1	OPDEF ('PUSHAH'	127	'AH')	
471	0710	1	OPDEF ('XXX XX'	128		
472	0711	1	OPDEF ('XXX XX'	129		
473	0712	1	OPDEF ('XXX XX'	130		
474	0713	1	OPDEF ('XXX XX'	131		
475	0714	1	OPDEF ('XXX XX'	132		
476	0715	1	OPDEF ('XXX XX'	133		
477	0716	1	OPDEF ('XXX XX'	134		
478	0717	1	OPDEF ('XXX XX'	135		
479	0718	1	OPDEF ('XXX XX'	136		
480	0719	1	OPDEF ('XXX XX'	137		
481	0720	1	OPDEF ('XXX XX'	138		
482	0721	1	OPDEF ('XXX XX'	139		
483	0722	1	OPDEF ('XXX XX'	140		
484	0723	1	OPDEF ('XXX XX'	141		
485	0724	1	OPDEF ('XXX XX'	142		
486	0725	1	OPDEF ('XXX XX'	143		
487	0726	1	OPDEF ('XXX XX'	144		
488	0727	1	OPDEF ('XXX XX'	145		
489	0728	1	OPDEF ('XXX XX'	146		
490	0729	1	OPDEF ('XXX XX'	147		
491	0730	1	OPDEF ('XXX XX'	148		
492	0731	1	OPDEF ('XXX XX'	149		
493	0732	1	OPDEF ('XXX XX'	150		
494	0733	1	OPDEF ('XXX XX'	151		
495	0734	1	OPDEF ('CVTFH'	152	'RF'	'WH')
496	0735	1	OPDEF ('CVTFG'	153	'RF'	'WG')
497	0736	1	OPDEF ('XXX XX'	154		
498	0737	1	OPDEF ('XXX XX'	155		
499	0738	1	OPDEF ('XXX XX'	156		
500	0739	1	OPDEF ('XXX XX'	157		
501	0740	1	OPDEF ('XXX XX'	158		
502	0741	1	OPDEF ('XXX XX'	159		
503	0742	1	OPDEF ('XXX XX'	160		
504	0743	1	OPDEF ('XXX XX'	161		
505	0744	1	OPDEF ('XXX XX'	162		
506	0745	1	OPDEF ('XXX XX'	163		

507	0746	1	OPDEF ('XXX XX' 164)
508	0747	1	OPDEF ('XXX XX' 165)
509	0748	1	OPDEF ('XXX XX' 166)
510	0749	1	OPDEF ('XXX XX' 167)
511	0750	1	OPDEF ('XXX XX' 168)
512	0751	1	OPDEF ('XXX XX' 169)
513	0752	1	OPDEF ('XXX XX' 170)
514	0753	1	OPDEF ('XXX XX' 171)
515	0754	1	OPDEF ('XXX XX' 172)
516	0755	1	OPDEF ('XXX XX' 173)
517	0756	1	OPDEF ('XXX XX' 174)
518	0757	1	OPDEF ('XXX XX' 175)
519	0758	1	OPDEF ('XXX XX' 176)
520	0759	1	OPDEF ('XXX XX' 177)
521	0760	1	OPDEF ('XXX XX' 178)
522	0761	1	OPDEF ('XXX XX' 179)
523	0762	1	OPDEF ('XXX XX' 180)
524	0763	1	OPDEF ('XXX XX' 181)
525	0764	1	OPDEF ('XXX XX' 182)
526	0765	1	OPDEF ('XXX XX' 183)
527	0766	1	OPDEF ('XXX XX' 184)
528	0767	1	OPDEF ('XXX XX' 185)
529	0768	1	OPDEF ('XXX XX' 186)
530	0769	1	OPDEF ('XXX XX' 187)
531	0770	1	OPDEF ('XXX XX' 188)
532	0771	1	OPDEF ('XXX XX' 189)
533	0772	1	OPDEF ('XXX XX' 190)
534	0773	1	OPDEF ('XXX XX' 191)
535	0774	1	OPDEF ('XXX XX' 192)
536	0775	1	OPDEF ('XXX XX' 193)
537	0776	1	OPDEF ('XXX XX' 194)
538	0777	1	OPDEF ('XXX XX' 195)
539	0778	1	OPDEF ('XXX XX' 196)
540	0779	1	OPDEF ('XXX XX' 197)
541	0780	1	OPDEF ('XXX XX' 198)
542	0781	1	OPDEF ('XXX XX' 199)
543	0782	1	OPDEF ('XXX XX' 200)
544	0783	1	OPDEF ('XXX XX' 201)
545	0784	1	OPDEF ('XXX XX' 202)
546	0785	1	OPDEF ('XXX XX' 203)
547	0786	1	OPDEF ('XXX XX' 204)
548	0787	1	OPDEF ('XXX XX' 205)
549	0788	1	OPDEF ('XXX XX' 206)
550	0789	1	OPDEF ('XXX XX' 207)
551	0790	1	OPDEF ('XXX XX' 208)
552	0791	1	OPDEF ('XXX XX' 209)
553	0792	1	OPDEF ('XXX XX' 210)
554	0793	1	OPDEF ('XXX XX' 211)
555	0794	1	OPDEF ('XXX XX' 212)
556	0795	1	OPDEF ('XXX XX' 213)
557	0796	1	OPDEF ('XXX XX' 214)
558	0797	1	OPDEF ('XXX XX' 215)
559	0798	1	OPDEF ('XXX XX' 216)
560	0799	1	OPDEF ('XXX XX' 217)
561	0800	1	OPDEF ('XXX XX' 218)
562	0801	1	OPDEF ('XXX XX' 219)
563	0802	1	OPDEF ('XXX XX' 220)

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.. 564      0803  1      OPDEF ('XXX XX' 221).  
.. 565      0804  1      OPDEF ('XXX XX' 222).  
.. 566      0805  1      OPDEF ('XXX XX' 223).  
.. 567      0806  1      OPDEF ('XXX XX' 224).  
.. 568      0807  1      OPDEF ('XXX XX' 225).  
.. 569      0808  1      OPDEF ('XXX XX' 226).  
.. 570      0809  1      OPDEF ('XXX XX' 227).  
.. 571      0810  1      OPDEF ('XXX XX' 228).  
.. 572      0811  1      OPDEF ('XXX XX' 229).  
.. 573      0812  1      OPDEF ('XXX XX' 230).  
.. 574      0813  1      OPDEF ('XXX XX' 231).  
.. 575      0814  1      OPDEF ('XXX XX' 232).  
.. 576      0815  1      OPDEF ('XXX XX' 233).  
.. 577      0816  1      OPDEF ('XXX XX' 234).  
.. 578      0817  1      OPDEF ('XXX XX' 235).  
.. 579      0818  1      OPDEF ('XXX XX' 236).  
.. 580      0819  1      OPDEF ('XXX XX' 237).  
.. 581      0820  1      OPDEF ('XXX XX' 238).  
.. 582      0821  1      OPDEF ('XXX XX' 239).  
.. 583      0822  1      OPDEF ('XXX XX' 240).  
.. 584      0823  1      OPDEF ('XXX XX' 241).  
.. 585      0824  1      OPDEF ('XXX XX' 242).  
.. 586      0825  1      OPDEF ('XXX XX' 243).  
.. 587      0826  1      OPDEF ('XXX XX' 244).  
.. 588      0827  1      OPDEF ('XXX XX' 245).  
.. 589      0828  1      OPDEF ('CVTHF ' 246, 'RH', 'WF'),  
.. 590      0829  1      OPDEF ('CVTHD ' 247, 'RH', 'WD'),  
.. 591      0830  1      OPDEF ('XXX XX' 248).  
.. 592      0831  1      OPDEF ('XXX XX' 249).  
.. 593      0832  1      OPDEF ('XXX XX' 250).  
.. 594      0833  1      OPDEF ('XXX XX' 251).  
.. 595      0834  1      OPDEF ('XXX XX' 252).  
.. 596      0835  1      OPDEF ('XXX XX' 253).  
.. 597      0836  1      OPDEF ('XXX XX' 254).  
.. 598      0837  1      OPDEF ('XXX XX' 255));
```

: 600
: 601
0838 1 END
0839 0 ELUDOM

```
.TITLE LIB$VAX_INST
.IDENT \V04-000\
.PSECT Z$DEBUG_CODE, PIC,2

7D 00 32 34 00000 LIB$GB_OPINFO1::
00 00 00 00 00004 .RAD50 \HALT \
00 00 59 E8 00008 .BYTE 0, 0, 0, 0
00 00 00 00 0000C .RAD50 \NOP \
00 00 71 51 00010 .BYTE 0, 0, 0, 0
00 00 00 00 00014 .RAD50 \REI \
00 00 0F 14 00018 .BYTE 0, 0, 0, 0
00 00 00 00 0001C .RAD50 \BPT \
00 00 71 5C 00020 .BYTE 0, 0, 0, 0
00 00 00 00 00024 .RAD50 \RET \
00 00 73 7A 00028 .BYTE 0, 0, 0, 0
00 00 00 00 0002C .RAD50 \RSB \
15 F8 4B B0 00030 .BYTE 0, 0, 0, 0
00 00 00 00 00034 .RAD50 \LDPCTX \
15 F8 7A 40 00036 .BYTE 0, 0, 0, 0
00 00 00 00 0003C .RAD50 \SVPCTX \
66 F8 16 44 00040 .BYTE 0, 0, 0, 0
00 00 90 94 00044 .RAD50 \CVTPS \
79 40 16 44 00048 .BYTE -108, -112, 0, 0
00 00 90 94 0004C .RAD50 \CVTSP \
23 00 3A 74 00050 .BYTE -108, -112, 0, 0
02 AA AA A6 00054 .RAD50 \INDEX \
00 00 15 93 00058 .BYTE -90, -86, -86, 2
00 00 9A 04 0005C .RAD50 \CRC \
0D 5A 66 DF 00060 .BYTE 4, -102, 0, 0
00 00 09 83 00064 .RAD50 \PROBER \
0D 5F 66 DF 00068 .BYTE -125, 9, 0, 0
00 00 09 83 0006C .RAD50 \PROBEW \
6D 8D 3A 83 00070 .BYTE -125, 9, 0, 0
00 00 02 02 00074 .RAD50 \INSQUE \
6D 8D 71 55 00078 .BYTE 2, 2, 0, 0
00 00 02 02 0007C .RAD50 \REMQUE \
0C 80 0F 7A 00080 .BYTE 2, 2, 0, 0
10 00 00 01 00084 .RAD50 \BSBB \
00 00 0F 52 00088 .BYTE 1, 0, 0, 16
10 00 00 01 0008C .RAD50 \BRB \
6A 40 0E B5 00090 .BYTE 1, 0, 0, 16
10 00 00 01 00094 .RAD50 \BNEQ \
4B 00 0D 59 00098 .BYTE 1, 0, 0, 16
10 00 00 01 0009C .RAD50 \BEQL \
70 80 0D AC 000A0 .BYTE 1, 0, 0, 16
10 00 00 01 000A4 .RAD50 \BGT \
6A 40 0E 65 000A8 .BYTE 1, 0, 0, 16
10 00 00 01 000AC .RAD50 \BLEQ \
00 00 41 7A 000B0 .BYTE 1, 0, 0, 16
00 00 00 01 000B4 .RAD50 \JSB \
00 00 40 98 000B8 .BYTE 1, 0, 0, 0
00 00 40 98 000BB .RAD50 \JMP \
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00	00	00	01	000BC	.BYTE	1, 0, 0, 0	
6A	40	0D	9D	000C0	.RAD50	\BGEQ \	
10	40	00	01	000C4	.BYTE	1, 0, 0, 16	
76	C0	0E	73	000C8	.RAD50	\BLSS \	
10	00	00	01	000CC	.BYTE	1, 0, 0, 16	
73	C8	0D	AC	000D0	.RAD50	\BGTRU \	
10	00	00	01	000D4	.BYTE	1, 0, 0, 16	
6D	88	0E	65	000D8	.RAD50	\BLEQU \	
10	00	00	01	000DC	.BYTE	1, 0, 0, 16	
00	00	0F	F3	000E0	.RAD50	\BVC \	
10	00	00	01	000E4	.BYTE	1, 0, 0, 16	
00	00	10	03	000E8	.RAD50	\BVS \	
10	00	00	01	000EC	.BYTE	1, 0, 0, 16	
6D	88	0D	9D	000F0	.RAD50	\BGEQU \	
10	00	00	01	000F4	.BYTE	1, 0, 0, 16	
7A	08	0E	73	000F8	.RAD50	\BLSSU \	
10	00	00	01	000FC	.BYTE	1, 0, 0, 16	
69	50	06	E4	00100	.RAD50	\ADDP4 \	
00	00	90	94	00104	.BYTE	-108, -112, 0, 0	
69	A0	06	E4	00108	.RAD50	\ADDP6 \	
00	90	90	96	0010C	.BYTE	-106, -112, -112, 0	
69	50	7A	0A	00110	.RAD50	\SUBP4 \	
00	00	90	94	00114	.BYTE	-108, -112, 0, 0	
69	A0	7A	0A	00118	.RAD50	\SUBP6 \	
00	90	90	96	0011C	.BYTE	-106, -112, -112, 0	
67	20	16	44	00120	.RAD50	\CVTPT \	
00	09	00	95	00124	.BYTE	-107, 0, 9, 0	
64	00	54	94	00128	.RAD50	\MULP \	
00	90	90	96	0012C	.BYTE	-106, -112, -112, 0	
7F	80	16	44	00130	.RAD50	\CVTTP \	
00	09	00	95	00134	.BYTE	-107, 0, 9, 0	
64	00	1A	7E	00138	.RAD50	\DIVP \	
00	90	90	96	0013C	.BYTE	-106, -112, -112, 0	
17	E8	53	AE	00140	.RAD50	\MOVc3 \	
00	00	00	93	00144	.BYTE	-109, 0, 0, 0	
17	E8	14	D8	00148	.RAD50	\CMPc3 \	
00	00	00	93	0014C	.BYTE	-109, 0, 0, 0	
57	F8	77	39	00150	.RAD50	\SCANC \	
00	08	00	94	00154	.BYTE	-108, 0, 8, 0	
57	F8	79	41	00158	.RAD50	\SPANC \	
00	08	00	94	0015C	.BYTE	-108, 0, 8, 0	
18	38	53	AE	00160	.RAD50	\MOVc5 \	
00	09	80	95	00164	.BYTE	-107, -128, 9, 0	
18	38	14	D8	00168	.RAD50	\CMPc5 \	
00	09	80	95	0016C	.BYTE	-107, -128, 9, 0	
7D	78	53	AE	00170	.RAD50	\MOVfc \	
00	90	80	96	00174	.BYTE	-106, -128, -112, 0	
80	4B	53	AE	00178	.RAD50	\MOVfuc \	
00	90	80	96	0017C	.BYTE	-106, -128, -112, 0	
8F	C0	0F	7A	00180	.RAD50	\BSBW \	
20	00	00	11	00184	.BYTE	17, 0, 0, 32	
00	00	0F	67	00188	.RAD50	\BRW \	
20	00	00	11	0018C	.BYTE	17, 0, 0, 32	
91	A0	16	44	00190	.RAD50	\CVTWL \	
00	00	02	92	00194	.BYTE	-110, 2, 0, 0	
90	10	16	44	00198	.RAD50	\CVTWB \	
00	00	00	92	0019C	.BYTE	-110, 0, 0, 0	

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64	00	53	AF	001A0	.RAD50	\MOVP \			
00	00	00	93	001A4	.BYTE	-109	0	0	0
69	28	14	D7	001A8	.RAD50	\CMPB3 \			
00	00	00	93	001AC	.BYTE	-109	0	0	0
65	E0	16	44	001B0	.RAD50	\CVTPL \			
00	00	20	93	001B4	.BYTE	-109	32	0	0
69	50	14	DB	001B8	.RAD50	\CMPB4 \			
00	00	90	94	001BC	.BYTE	-108	-112	0	0
7F	83	1F	E9	001C0	.RAD50	\EDIFC \			
00	00	00	94	001C4	.BYTE	-108	0	0	0
14	03	51	7C	001C8	.RAD50	\MATCHC \			
00	00	90	94	001CC	.BYTE	-108	-112	0	0
12	C0	4D	5B	001D0	.RAD50	\LOC \			
00	00	09	83	001D4	.BYTE	-125	9	0	0
12	C0	78	88	001D8	.RAD50	\SKPC \			
00	00	09	83	001DC	.BYTE	-125	9	0	0
A6	24	53	AE	001E0	.RAD50	\MOVZWL \			
00	00	02	92	001E4	.BYTE	-110	2	0	0
8F	C0	06	BA	001E8	.RAD50	\ACBW \			
20	01	19	94	001EC	.BYTE	-108	25	1	32
09	DB	53	AE	001F0	.RAD50	\MOVAW \			
00	00	02	12	001F4	.BYTE	18	2	0	0
32	3F	67	5B	001F8	.RAD50	\PUSHAW \			
00	00	00	11	001FC	.BYTE	17	0	0	0
2A	80	06	E4	00200	.RAD50	\ADDF2 \			
00	00	02	A2	00204	.BYTE	-94	2	0	0
2A	A8	06	E4	00208	.RAD50	\ADDF3 \			
00	00	2A	A3	0020C	.BYTE	-93	42	0	0
2A	80	7A	0A	00210	.RAD50	\SUBF2 \			
00	00	02	A2	00214	.BYTE	-94	2	0	0
2A	A8	7A	0A	00218	.RAD50	\SUBF3 \			
00	00	2A	A3	0021C	.BYTE	-93	42	0	0
2A	80	54	94	00220	.RAD50	\MULF2 \			
00	00	02	A2	00224	.BYTE	-94	2	0	0
2A	A8	54	94	00228	.RAD50	\MULF3 \			
00	00	2A	A3	0022C	.BYTE	-93	42	0	0
2A	80	1A	7E	00230	.RAD50	\DIVF2 \			
00	00	02	A2	00234	.BYTE	-94	2	0	0
2A	A8	1A	7E	00238	.RAD50	\DIVF3 \			
00	00	2A	A3	0023C	.BYTE	-93	42	0	0
25	D0	16	44	00240	.RAD50	\CVTFB \			
00	00	00	A2	00244	.BYTE	-94	0	0	0
29	18	16	44	00248	.RAD50	\CVTFW \			
00	00	01	A2	0024C	.BYTE	-94	1	0	0
27	60	16	44	00250	.RAD50	\CVTFL \			
00	00	02	A2	00254	.BYTE	-94	2	0	0
71	7C	16	44	00258	.RAD50	\CVTRFL \			
00	00	02	A2	0025C	.BYTE	-94	2	0	0
0D	70	16	44	00260	.RAD50	\CVTBF \			
00	00	02	82	00264	.BYTE	-126	2	0	0
90	B0	16	44	00268	.RAD50	\CVTWF \			
00	00	02	92	0026C	.BYTE	-110	2	0	0
4B	F0	16	44	00270	.RAD50	\CVTLF \			
00	00	02	A2	00274	.BYTE	-94	2	0	0
25	80	06	BA	00278	.RAD50	\ACBF \			
20	01	2A	A4	0027C	.BYTE	-92	42	1	32
25	80	53	AE	00280	.RAD50	\MOVF \			

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00	00	02	A2	00284	.BYTE	-94, 2, 0, 0
25	80	14	D8	00288	.RAD50	\CMPF \
00	00	0A	A2	0028C	.BYTE	-94, 10, 0, 0
2C	B0	53	75	00290	.RAD50	\MNEG \
00	00	02	A2	00294	.BYTE	-94, 2, 0, 0
25	80	80	0C	00298	.RAD50	\TSf \
00	00	00	A1	0029C	.BYTE	-95, 0, 0, 0
19	F0	21	57	002A0	.RAD50	\EMODF \
00	22	A8	A5	002A4	.BYTE	-91, -88, 34, 0
9D	30	66	64	002A8	.RAD50	\POLYF \
00	00	09	A3	002AC	.BYTE	-93, 9, 0, 0
26	20	16	44	002B0	.RAD50	\CVfD \
00	00	03	A2	002B4	.BYTE	-94, 3, 0, 0
03	D8	99	D8	002B8	.RAD50	\XXX XX \
00	00	00	0F	002BC	.BYTE	15, 0, 0, 0
91	26	06	E1	002C0	.RAD50	\ADAWI \
00	00	01	92	002C4	.BYTE	-110, 1, 0, 0
03	D8	99	D8	002C8	.RAD50	\XXX XX \
00	00	00	0F	002CC	.BYTE	15, 0, 0, 0
03	D8	99	D8	002D0	.RAD50	\XXX XX \
00	00	00	0F	002D4	.BYTE	15, 0, 0, 0
03	D8	99	D8	002D8	.RAD50	\XXX XX \
00	00	00	0F	002DC	.BYTE	15, 0, 0, 0
68	89	3A	83	002E0	.RAD50	\INSQHI \
00	00	03	02	002E4	.BYTE	2, 3, 0, 0
6D	69	3A	83	002E8	.RAD50	\INSQTI \
00	00	03	02	002EC	.BYTE	2, 3, 0, 0
68	89	71	55	002F0	.RAD50	\REMQHI \
00	00	02	32	002F4	.BYTE	50, 2, 0, 0
6D	69	71	55	002F8	.RAD50	\REMQTI \
00	00	02	32	002FC	.BYTE	50, 2, 0, 0
1E	00	06	E4	00300	.RAD50	\ADD2 \
00	00	03	B2	00304	.BYTE	-78, 3, 0, 0
1E	28	06	E4	00308	.RAD50	\ADD3 \
00	00	3B	B3	0030C	.BYTE	-77, 59, 0, 0
1E	00	7A	0A	00310	.RAD50	\SUBD2 \
00	00	03	B2	00314	.BYTE	-78, 3, 0, 0
1E	28	7A	0A	00318	.RAD50	\SUBD3 \
00	00	3B	B3	0031C	.BYTE	-77, 59, 0, 0
1E	00	54	94	00320	.RAD50	\MULD2 \
00	00	03	B2	00324	.BYTE	-78, 3, 0, 0
1E	28	54	94	00328	.RAD50	\MULD3 \
00	00	3B	B3	0032C	.BYTE	-77, 59, 0, 0
1E	00	1A	7E	00330	.RAD50	\DIVD2 \
00	00	03	B2	00334	.BYTE	-78, 3, 0, 0
1E	28	1A	7E	00338	.RAD50	\DIVD3 \
00	00	3B	B3	0033C	.BYTE	-77, 59, 0, 0
19	50	16	44	00340	.RAD50	\CVfDB \
00	00	00	B2	00344	.BYTE	-78, 0, 0, 0
1C	98	16	44	00348	.RAD50	\CVfDW \
00	00	01	B2	0034C	.BYTE	-78, 1, 0, 0
1A	E0	16	44	00350	.RAD50	\CVfDL \
00	00	02	B2	00354	.BYTE	-78, 2, 0, 0
71	2C	16	44	00358	.RAD50	\CVfRDL \
00	00	02	B2	0035C	.BYTE	-78, 2, 0, 0
0D	20	16	44	00360	.RAD50	\CVfBD \
00	00	03	82	00364	.BYTE	-126, 3, 0, 0

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90	60	16	44	00368	.RAD50	\CVTWD \			
00	00	03	92	0036C	.BYTE	-110, 3, 0, 0			
4B	A0	16	44	00370	.RAD50	\CVTLD \			
00	00	03	A2	00374	.BYTE	-94, 3, 0, 0			
19	00	06	BA	00378	.RAD50	\ACBD \			
20	01	3B	B4	0037C	.BYTE	-76, 59, 1, 32			
19	00	53	AE	00380	.RAD50	\MOVD \			
00	00	03	B2	00384	.BYTE	-78, 3, 0, 0			
19	00	14	DB	00388	.RAD50	\CMPD \			
00	00	08	B2	0038C	.BYTE	-78, 11, 0, 0			
2C	60	53	75	00390	.RAD50	\MNEG \			
00	00	03	B2	00394	.BYTE	-78, 3, 0, 0			
19	00	80	0C	00398	.RAD50	\TSTD \			
00	00	00	B1	0039C	.BYTE	-79, 0, 0, 0			
19	A0	21	57	003A0	.RAD50	\EMODD \			
00	32	B8	B5	003A4	.BYTE	-75, -72, 50, 0			
9C	F0	66	64	003A8	.RAD50	\POLYD \			
00	00	09	B3	003AC	.BYTE	-77, 9, 0, 0			
19	F0	16	44	003B0	.RAD50	\CVTDF \			
00	00	02	B2	003B4	.BYTE	-78, 2, 0, 0			
03	D8	99	DB	003B8	.RAD50	\XXX XX \			
00	00	00	0F	003BC	.BYTE	15, 0, 0, 0			
4B	00	09	40	003C0	.RAD50	\ASHL \			
00	00	2A	83	003C4	.BYTE	-125, 42, 0, 0			
6A	40	09	40	003C8	.RAD50	\ASHQ \			
00	00	3B	83	003CC	.BYTE	-125, 59, 0, 0			
4B	00	21	5D	003D0	.RAD50	\EMUL \			
00	03	AA	A4	003D4	.BYTE	-92, -86, 3, 0			
89	80	1F	E9	003D8	.RAD50	\EDIV \			
00	02	2B	A4	003DC	.BYTE	-92, 43, 2, 0			
6A	40	14	B2	003E0	.RAD50	\CLRQ \			
00	00	00	31	003E4	.BYTE	49, 0, 0, 0			
6A	40	53	AE	003E8	.RAD50	\MCVQ \			
00	00	03	B2	003EC	.BYTE	-78, 3, 0, 0			
08	F8	53	AE	003F0	.RAD50	\MOVAQ \			
00	00	02	32	003F4	.BYTE	50, 2, 0, 0			
32	39	67	5B	003F8	.RAD50	\PUSHAQ \			
00	00	00	31	003FC	.BYTE	49, 0, 0, 0			
11	80	06	E4	00400	.RAD50	\ADDB2 \			
00	00	00	82	00404	.BYTE	-126, 0, 0, 0			
11	A8	06	E4	00408	.RAD50	\ADDB3 \			
00	00	08	83	0040C	.BYTE	-125, 8, 0, 0			
11	80	7A	0A	00410	.RAD50	\SUBB2 \			
00	00	00	82	00414	.BYTE	-126, 0, 0, 0			
11	A8	7A	0A	00418	.RAD50	\SUBB3 \			
00	00	08	83	0041C	.BYTE	-125, 8, 0, 0			
11	80	54	94	00420	.RAD50	\MULB2 \			
00	00	00	82	00424	.BYTE	-126, 0, 0, 0			
11	A8	54	94	00428	.RAD50	\MULB3 \			
00	00	08	83	0042C	.BYTE	-125, 8, 0, 0			
11	80	1A	7E	00430	.RAD50	\DIVB2 \			
00	00	00	82	00434	.BYTE	-126, 0, 0, 0			
11	A8	1A	7E	00438	.RAD50	\DIVB3 \			
00	00	08	83	0043C	.BYTE	-125, 8, 0, 0			
11	80	0D	FB	00440	.RAD50	\BISB2 \			
00	00	00	82	00444	.BYTE	-126, 0, 0, 0			
11	A8	0D	FB	00448	.RAD50	\BISB3 \			

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00	00	08	83	0044C	.BYTE	-125, 8, 0, 0	
11	80	0D	EB	00450	.RAD50	\BICB2 \	
00	00	00	82	00454	.BYTE	-126, 0, 0, 0	
11	A8	0D	EB	00458	.RAD50	\BICB3 \	
00	00	08	83	0045C	.BYTE	-125, 8, 0, 0	
11	80	98	6A	00460	.RAD50	\XORB2 \	
00	00	00	82	00464	.BYTE	-126, 0, 0, 0	
11	A8	98	6A	00468	.RAD50	\XORB3 \	
00	00	08	83	0046C	.BYTE	-125, 8, 0, 0	
2C	10	53	75	00470	.RAD50	\MNEGB \	
00	00	00	82	00474	.BYTE	-126, 0, 0, 0	
1F	90	12	FB	00478	.RAD50	\CASEB \	
00	00	88	83	0047C	.BYTE	-125, -120, 0, 0	
0C	80	53	AE	00480	.RAD50	\MOVB \	
00	00	00	82	00484	.BYTE	-126, 0, 0, 0	
0C	80	14	DB	00488	.RAD50	\CMPB \	
00	00	08	82	0048C	.BYTE	-126, 8, 0, 0	
51	90	51	C7	00490	.RAD50	\MCOMB \	
00	00	00	82	00494	.BYTE	-126, 0, 0, 0	
0C	80	0D	FC	00498	.RAD50	\BITB \	
00	00	00	82	0049C	.BYTE	-126, 0, 0, 0	
0C	80	14	B2	004A0	.RAD50	\CLRB \	
00	00	00	01	004A4	.BYTE	1, 0, 0, 0	
0C	80	80	0C	004A8	.RAD50	\TSTB \	
00	00	00	81	004AC	.BYTE	-127, 0, 0, 0	
0C	80	3A	73	004B0	.RAD50	\INCB \	
00	00	00	01	004B4	.BYTE	1, 0, 0, 0	
0C	80	19	CB	004B8	.RAD50	\DECB \	
00	00	00	01	004BC	.BYTE	1, 0, 0, 0	
0E	60	16	44	004C0	.RAD50	\CVTBL \	
00	00	02	82	004C4	.BYTE	-126, 2, 0, 0	
10	18	16	44	004C8	.RAD50	\CVTBW \	
00	00	01	82	004CC	.BYTE	-126, 1, 0, 0	
A2	DC	53	AE	004D0	.RAD50	\MOVZBL \	
00	00	02	82	004D4	.BYTE	-126, 2, 0, 0	
A2	E7	53	AE	004D8	.RAD50	\MOVZBW \	
00	00	01	82	004DC	.BYTE	-126, 1, 0, 0	
4B	00	72	EC	004E0	.RAD50	\ROTL \	
00	00	2A	83	004E4	.BYTE	-125, 42, 0, 0	
0C	80	06	BA	004E8	.RAD50	\ACBB \	
20	01	08	84	004EC	.BYTE	-124, 8, 1, 32	
06	90	53	AE	004F0	.RAD50	\MOVAB \	
00	00	02	02	004F4	.BYTE	2, 2, 0, 0	
32	2A	67	5B	004F8	.RAD50	\PUSHAB \	
00	00	00	01	004FC	.BYTE	1, 0, 0, 0	
94	C0	06	E4	00500	.RAD50	\ADDW2 \	
00	00	01	92	00504	.BYTE	-110, 1, 0, 0	
94	E8	06	E4	00508	.RAD50	\ADDW3 \	
00	00	19	93	0050C	.BYTE	-109, 25, 0, 0	
94	C0	7A	0A	00510	.RAD50	\SUBW2 \	
00	00	01	92	00514	.BYTE	-110, 1, 0, 0	
94	E8	7A	0A	00518	.RAD50	\SUBW3 \	
00	00	19	93	0051C	.BYTE	-109, 25, 0, 0	
94	C0	54	94	00520	.RAD50	\MULW2 \	
00	00	01	92	00524	.BYTE	-110, 1, 0, 0	
94	E8	54	94	00528	.RAD50	\MULW3 \	
00	00	19	93	0052C	.BYTE	-109, 25, 0, 0	

94	CO	1A	7E	00530	.RAD50	\DIVW2 \			
00	00	01	92	00534	.BYTE	-110, 1, 0, 0			
94	EB	1A	7E	00538	.RAD50	\DIVW3 \			
00	00	19	93	0053C	.BYTE	-109, 25, 0, 0			
94	CO	0D	FB	00540	.RAD50	\BISW2 \			
00	00	01	92	00544	.BYTE	-110, 1, 0, 0			
94	EB	0D	FB	00548	.RAD50	\BISW3 \			
00	00	19	93	0054C	.BYTE	-109, 25, 0, 0			
94	CO	0D	EB	00550	.RAD50	\BICW2 \			
00	00	01	92	00554	.BYTE	-110, 1, 0, 0			
94	EB	0D	EB	00558	.RAD50	\BICW3 \			
00	00	19	93	0055C	.BYTE	-109, 25, 0, 0			
94	CO	98	6A	00560	.RAD50	\XORW2 \			
00	00	01	92	00564	.BYTE	-110, 1, 0, 0			
94	EB	98	6A	00568	.RAD50	\XORW3 \			
00	00	19	93	0056C	.BYTE	-109, 25, 0, 0			
2F	58	53	75	00570	.RAD50	\MNEGW \			
00	00	01	92	00574	.BYTE	-110, 1, 0, 0			
22	DB	12	FB	00578	.RAD50	\CASEW \			
00	00	99	93	0057C	.BYTE	-109, -103, 0, 0			
8F	CO	53	AE	00580	.RAD50	\MOVW \			
00	00	01	92	00584	.BYTE	-110, 1, 0, 0			
8F	CO	14	DB	00588	.RAD50	\CMPW \			
00	00	09	92	0058C	.BYTE	-110, 9, 0, 0			
54	DB	51	C7	00590	.RAD50	\MCOMW \			
00	00	01	92	00594	.BYTE	-110, 1, 0, 0			
8F	CO	0D	FC	00598	.RAD50	\BITW \			
00	00	09	92	0059C	.BYTE	-110, 9, 0, 0			
8F	CO	14	B2	005A0	.RAD50	\CLRW \			
00	00	00	11	005A4	.BYTE	17, 0, 0, 0			
8F	CO	80	0C	005A8	.RAD50	\TSTW \			
00	00	00	91	005AC	.BYTE	-111, 0, 0, 0			
8F	CO	3A	73	005B0	.RAD50	\INCW \			
00	00	00	11	005B4	.BYTE	17, 0, 0, 0			
8F	CO	19	CB	005B8	.RAD50	\DECW \			
00	00	00	11	005BC	.BYTE	17, 0, 0, 0			
67	0F	0D	FB	005C0	.RAD50	\BISPSW \			
00	00	00	91	005C4	.BYTE	-111, 0, 0, 0			
67	0F	0D	EB	005C8	.RAD50	\BICPSW \			
00	00	00	91	005CC	.BYTE	-111, 0, 0, 0			
70	80	66	68	005D0	.RAD50	\POPR \			
00	00	00	91	005D4	.BYTE	-111, 0, 0, 0			
34	DB	67	5B	005D8	.RAD50	\PUSHR \			
00	00	00	91	005DC	.BYTE	-111, 0, 0, 0			
44	CO	14	0D	005E0	.RAD50	\CHMK \			
00	00	00	91	005E4	.BYTE	-111, 0, 0, 0			
1F	40	14	0D	005E8	.RAD50	\CHME \			
00	00	00	91	005EC	.BYTE	-111, 0, 0, 0			
76	CO	14	0D	005F0	.RAD50	\CHMS \			
00	00	00	91	005F4	.BYTE	-111, 0, 0, 0			
83	40	14	0D	005F8	.RAD50	\CHMU \			
00	00	00	91	005FC	.BYTE	-111, 0, 0, 0			
50	00	06	E4	00600	.RAD50	\ADDL2 \			
00	00	02	A2	00604	.BYTE	-94, 2, 0, 0			
50	28	06	E4	00608	.RAD50	\ADDL3 \			
00	00	2A	A3	0060C	.BYTE	-93, 42, 0, 0			
50	00	7A	0A	00610	.RAD50	\SUBL2 \			

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00	00	02	A2	00614	.BYTE	-94, 2, 0, 0
50	28	7A	0A	00618	.RAD50	\SUBL3 \
00	00	2A	A3	0061C	.BYTE	-93, 42, 0, 0
50	00	54	94	00620	.RAD50	\MULL2 \
00	00	02	A2	00624	.BYTE	-94, 2, 0, 0
50	28	54	94	00628	.RAD50	\MULL3 \
00	00	2A	A3	0062C	.BYTE	-93, 42, 0, 0
50	00	1A	7E	00630	.RAD50	\DIVL2 \
00	00	02	A2	00634	.BYTE	-94, 2, 0, 0
50	28	1A	7E	00638	.RAD50	\DIVL3 \
00	00	2A	A3	0063C	.BYTE	-93, 42, 0, 0
50	00	0D	FB	00640	.RAD50	\BISL2 \
00	00	02	A2	00644	.BYTE	-94, 2, 0, 0
50	28	0D	FB	00648	.RAD50	\BISL3 \
00	00	2A	A3	0064C	.BYTE	-93, 42, 0, 0
50	00	0D	EB	00650	.RAD50	\BICL2 \
00	00	02	A2	00654	.BYTE	-94, 2, 0, 0
50	28	0D	EB	00658	.RAD50	\BICL3 \
00	00	2A	A3	0065C	.BYTE	-93, 42, 0, 0
50	00	98	CA	00660	.RAD50	\XORL2 \
00	00	02	A2	00664	.BYTE	-94, 2, 0, 0
50	28	98	CA	00668	.RAD50	\XORL3 \
00	00	2A	A3	0066C	.BYTE	-93, 42, 0, 0
2D	A0	53	75	00670	.RAD50	\MNEGL \
00	00	02	A2	00674	.BYTE	-94, 2, 0, 0
21	20	12	FB	00678	.RAD50	\CASEL \
00	00	AA	A3	0067C	.BYTE	-93, -86, 0, 0
4B	00	53	AE	00680	.RAD50	\MOVL \
00	00	02	A2	00684	.BYTE	-94, 2, 0, 0
4B	00	14	DB	00688	.RAD50	\CMPL \
00	00	0A	A2	0068C	.BYTE	-94, 10, 0, 0
53	20	51	C7	00690	.RAD50	\MCOML \
00	00	02	A2	00694	.BYTE	-94, 2, 0, 0
4B	00	0D	FC	00698	.RAD50	\BITL \
00	00	0A	A2	0069C	.BYTE	-94, 10, 0, 0
4B	00	14	B2	006A0	.RAD50	\CLRL \
00	00	00	21	006A4	.BYTE	33, 0, 0, 0
4B	00	80	0C	006A8	.RAD50	\TSTL \
00	00	00	A1	006AC	.BYTE	-95, 0, 0, 0
4B	00	3A	73	006B0	.RAD50	\INCL \
00	00	00	21	006B4	.BYTE	33, 0, 0, 0
4B	00	19	CB	006B8	.RAD50	\DECL \
00	00	00	21	006BC	.BYTE	33, 0, 0, 0
12	C0	06	F7	006C0	.RAD50	\ADWC \
00	00	02	A2	006C4	.BYTE	-94, 2, 0, 0
12	C0	77	27	006C8	.RAD50	\SBWC \
00	00	02	A2	006CC	.BYTE	-94, 2, 0, 0
70	80	54	70	006D0	.RAD50	\MTPR \
00	00	0A	A2	006D4	.BYTE	-94, 10, 0, 0
70	80	52	40	006D8	.RAD50	\MFPR \
00	00	02	A2	006DC	.BYTE	-94, 2, 0, 0
67	04	53	AE	006E0	.RAD50	\MOVPSL \
00	00	00	21	006E4	.BYTE	33, 0, 0, 0
33	E0	67	5B	006E8	.RAD50	\PUSHL \
00	00	00	A1	006EC	.BYTE	-95, 0, 0, 0
08	20	53	AE	006F0	.RAD50	\MOVAL \
00	00	02	22	006F4	.BYTE	34, 2, 0, 0

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32	34	67	5B	006F8	.RAD50	\PUSHAL\			
00	00	00	21	006FC	.BYTE	33, 0, 0, 0			
00	00	0C	E3	00700	.RAD50	\BBS\			
10	00	00	A3	00704	.BYTE	-93, 0, 0, 16			
00	00	0C	D3	00708	.RAD50	\BBC\			
10	00	00	A3	0070C	.BYTE	-93, 0, 0, 16			
76	C0	0C	E3	00710	.RAD50	\BBS\			
10	00	00	A3	00714	.BYTE	-93, 0, 0, 16			
76	C0	0C	D3	00718	.RAD50	\BBCS\			
10	00	00	A3	0071C	.BYTE	-93, 0, 0, 16			
12	C0	0C	E3	00720	.RAD50	\BBS\			
10	00	00	A3	00724	.BYTE	-93, 0, 0, 16			
12	C0	0C	D3	00728	.RAD50	\BBC\			
10	00	00	A3	0072C	.BYTE	-93, 0, 0, 16			
78	28	0C	E3	00730	.RAD50	\BBSI\			
10	00	00	A3	00734	.BYTE	-93, 0, 0, 16			
14	28	0C	D3	00738	.RAD50	\BBCI\			
10	00	00	A3	0073C	.BYTE	-93, 0, 0, 16			
76	C0	0E	62	00740	.RAD50	\BLBS\			
10	00	00	A2	00744	.BYTE	-94, 0, 0, 16			
12	C0	0E	62	00748	.RAD50	\BLBC\			
10	00	00	A2	0074C	.BYTE	-94, 0, 0, 16			
00	00	26	83	00750	.RAD50	\FFS\			
00	02	08	A4	00754	.BYTE	-92, 8, 2, 0			
00	00	26	73	00758	.RAD50	\FFC\			
00	02	08	A4	0075C	.BYTE	-92, 8, 2, 0			
89	80	14	D8	00760	.RAD50	\CMPV\			
00	0A	08	A4	00764	.BYTE	-92, 8, 10, 0			
A5	F0	14	D8	00768	.RAD50	\CMPZV\			
00	0A	08	A4	0076C	.BYTE	-92, 8, 10, 0			
89	80	23	14	00770	.RAD50	\EXTV\			
00	02	08	A4	00774	.BYTE	-92, 8, 2, 0			
A5	F0	23	14	00778	.RAD50	\EXTZV\			
00	02	08	A4	0077C	.BYTE	-92, 8, 2, 0			
89	80	3A	83	00780	.RAD50	\INSV\			
00	00	8A	A4	00784	.BYTE	-92, -118, 0, 0			
4B	00	06	BA	00788	.RAD50	\ACBL\			
20	01	2A	A4	0078C	.BYTE	-92, 42, 1, 32			
4E	0B	08	9A	00790	.RAD50	\AOBLSS\			
10	00	02	A3	00794	.BYTE	-93, 2, 0, 16			
4B	D9	08	9A	00798	.RAD50	\AOBLEQ\			
10	00	02	A3	0079C	.BYTE	-93, 2, 0, 16			
2C	99	79	1A	007A0	.RAD50	\SOBGEQ\			
10	00	00	22	007A4	.BYTE	34, 0, 0, 16			
2E	F2	79	1A	007A8	.RAD50	\SOBGFR\			
10	00	00	22	007AC	.BYTE	34, 0, 0, 16			
4B	50	16	44	007B0	.RAD50	\CVTLB\			
00	00	00	A2	007B4	.BYTE	-94, 0, 0, 0			
4E	98	16	44	007B8	.RAD50	\CVTLW\			
00	00	01	A2	007BC	.BYTE	-94, 1, 0, 0			
64	00	09	40	007C0	.RAD50	\ASHP\			
00	98	09	86	007C4	.BYTE	-122, 9, -104, 0			
4D	80	16	44	007C8	.RAD50	\CVILP\			
00	00	09	A3	007CC	.BYTE	-93, 9, 0, 0			
4C	18	12	F4	007D0	.RAD50	\CALLG\			
00	00	00	02	007D4	.BYTE	2, 0, 0, 0			
4D	F8	12	F4	007D8	.RAD50	\CALLS\			

EXE
MOC
SMC
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SMC
TEI
SY:
LII

00	00	00	A2	007DC	.BYTE	-94, 0, 0, 0
00	00	96	F3	007E0	.RAD50	\XFC \
00	00	00	00	007E4	.BYTE	0, 0, 0, 0
03	D8	99	D8	007EB	.RAD50	\XXX XX\
00	00	00	0F	007EC	.BYTE	15, 0, 0, 0
03	D8	99	D8	007F0	.RAD50	\XXX XX\
00	00	00	0F	007F4	.BYTE	15, 0, 0, 0
03	D8	99	D8	007F8	.RAD50	\XXX XX\
00	00	00	0F	007FC	.BYTE	15, 0, 0, 0
03	D8	99	D8	00800	LIB\$GB_OPINFO2:	
					.RAD50	\XXX XX\
00	00	00	0F	00804	.BYTE	15, 0, 0, 0
03	D8	99	D8	00808	.RAD50	\XXX XX\
00	00	00	0F	0080C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00810	.RAD50	\XXX XX\
00	00	00	0F	00814	.BYTE	15, 0, 0, 0
03	D8	99	D8	00818	.RAD50	\XXX XX\
00	00	00	0F	0081C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00820	.RAD50	\XXX XX\
00	00	00	0F	00824	.BYTE	15, 0, 0, 0
03	D8	99	D8	00828	.RAD50	\XXX XX\
00	00	00	0F	0082C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00830	.RAD50	\XXX XX\
00	00	00	0F	00834	.BYTE	15, 0, 0, 0
03	D8	99	D8	00838	.RAD50	\XXX XX\
00	00	00	0F	0083C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00840	.RAD50	\XXX XX\
00	00	00	0F	00844	.BYTE	15, 0, 0, 0
03	D8	99	D8	00848	.RAD50	\XXX XX\
00	00	00	0F	0084C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00850	.RAD50	\XXX XX\
00	00	00	0F	00854	.BYTE	15, 0, 0, 0
03	D8	99	D8	00858	.RAD50	\XXX XX\
00	00	00	0F	0085C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00860	.RAD50	\XXX XX\
00	00	00	0F	00864	.BYTE	15, 0, 0, 0
03	D8	99	D8	00868	.RAD50	\XXX XX\
00	00	00	0F	0086C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00870	.RAD50	\XXX XX\
00	00	00	0F	00874	.BYTE	15, 0, 0, 0
03	D8	99	D8	00878	.RAD50	\XXX XX\
00	00	00	0F	0087C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00880	.RAD50	\XXX XX\
00	00	00	0F	00884	.BYTE	15, 0, 0, 0
03	D8	99	D8	00888	.RAD50	\XXX XX\
00	00	00	0F	0088C	.BYTE	15, 0, 0, 0
03	D8	99	D8	00890	.RAD50	\XXX XX\
00	00	00	0F	00894	.BYTE	15, 0, 0, 0
03	D8	99	D8	00898	.RAD50	\XXX XX\
00	00	00	0F	0089C	.BYTE	15, 0, 0, 0
03	D8	99	D8	008A0	.RAD50	\XXX XX\
00	00	00	0F	008A4	.BYTE	15, 0, 0, 0
03	D8	99	D8	008A8	.RAD50	\XXX XX\
00	00	00	0F	008AC	.BYTE	15, 0, 0, 0
03	D8	99	D8	008B0	.RAD50	\XXX XX\
00	00	00	0F	008B4	.BYTE	15, 0, 0, 0
03	D8	99	D8	008B8	.RAD50	\XXX XX\

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DEI
LII

00	00	00	OF	008BC	.BYTE	15, 0, 0, 0
03	D8	99	DB	008C0	.RAD50	\XXX XX\
00	00	00	OF	008C4	.BYTE	15, 0, 0, 0
03	D8	99	DB	008C8	.RAD50	\XXX XX\
00	00	00	OF	008CC	.BYTE	15, 0, 0, 0
03	D8	99	DB	008D0	.RAD50	\XXX XX\
00	00	00	OF	008D4	.BYTE	15, 0, 0, 0
03	D8	99	DB	008D8	.RAD50	\XXX XX\
00	00	00	OF	008DC	.BYTE	15, 0, 0, 0
03	D8	99	DB	008E0	.RAD50	\XXX XX\
00	00	00	OF	008E4	.BYTE	15, 0, 0, 0
03	D8	99	DB	008E8	.RAD50	\XXX XX\
00	00	00	OF	008EC	.BYTE	15, 0, 0, 0
03	D8	99	DB	008F0	.RAD50	\XXX XX\
00	00	00	OF	008F4	.BYTE	15, 0, 0, 0
03	D8	99	DB	008F8	.RAD50	\XXX XX\
00	00	00	OF	008FC	.BYTE	15, 0, 0, 0
03	D8	99	DB	00900	.RAD50	\XXX XX\
00	00	00	OF	00904	.BYTE	15, 0, 0, 0
03	D8	99	DB	00908	.RAD50	\XXX XX\
00	00	00	OF	0090C	.BYTE	15, 0, 0, 0
03	D8	99	DB	00910	.RAD50	\XXX XX\
00	00	00	OF	00914	.BYTE	15, 0, 0, 0
03	D8	99	DB	00918	.RAD50	\XXX XX\
00	00	00	OF	0091C	.BYTE	15, 0, 0, 0
03	D8	99	DB	00920	.RAD50	\XXX XX\
00	00	00	OF	00924	.BYTE	15, 0, 0, 0
03	D8	99	DB	00928	.RAD50	\XXX XX\
00	00	00	OF	0092C	.BYTE	15, 0, 0, 0
03	D8	99	DB	00930	.RAD50	\XXX XX\
00	00	00	OF	00934	.BYTE	15, 0, 0, 0
03	D8	99	DB	00938	.RAD50	\XXX XX\
00	00	00	OF	0093C	.BYTE	15, 0, 0, 0
03	D8	99	DB	00940	.RAD50	\XXX XX\
00	00	00	OF	00944	.BYTE	15, 0, 0, 0
03	D8	99	DB	00948	.RAD50	\XXX XX\
00	00	00	OF	0094C	.BYTE	15, 0, 0, 0
03	D8	99	DB	00950	.RAD50	\XXX XX\
00	00	00	OF	00954	.BYTE	15, 0, 0, 0
03	D8	99	DB	00958	.RAD50	\XXX XX\
00	00	00	OF	0095C	.BYTE	15, 0, 0, 0
03	D8	99	DB	00960	.RAD50	\XXX XX\
00	00	00	OF	00964	.BYTE	15, 0, 0, 0
03	D8	99	DB	00968	.RAD50	\XXX XX\
00	00	00	OF	0096C	.BYTE	15, 0, 0, 0
03	D8	99	DB	00970	.RAD50	\XXX XX\
00	00	00	OF	00974	.BYTE	15, 0, 0, 0
03	D8	99	DB	00978	.RAD50	\XXX XX\
00	00	00	OF	0097C	.BYTE	15, 0, 0, 0
03	D8	99	DB	00980	.RAD50	\XXX XX\
00	00	00	OF	00984	.BYTE	15, 0, 0, 0
03	D8	99	DB	00988	.RAD50	\XXX XX\
00	00	00	OF	0098C	.BYTE	15, 0, 0, 0
1A	4C	16	44	00990	.RAD50	\CVTDH \
00	00	04	B2	00994	.BYTE	-78, 4, 0, 0
2C	B0	16	44	00998	.RAD50	\CVIGF \
00	00	02	B2	0099C	.BYTE	-78, 2, 0, 0

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PSI
SGI
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03	D8	99	D8	009A0	.RAD50	\XXX XX\			
00	00	00	0F	009A4	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009A8	.RAD50	\XXX XX\			
00	00	00	0F	009AC	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009B0	.RAD50	\XXX XX\			
00	00	00	0F	009B4	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009B8	.RAD50	\XXX XX\			
00	00	00	0F	009BC	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009C0	.RAD50	\XXX XX\			
00	00	00	0F	009C4	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009C8	.RAD50	\XXX XX\			
00	00	00	0F	009CC	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009D0	.RAD50	\XXX XX\			
00	00	00	0F	009D4	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009D8	.RAD50	\XXX XX\			
00	00	00	0F	009DC	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009E0	.RAD50	\XXX XX\			
00	00	00	0F	009F4	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009E8	.RAD50	\XXX XX\			
00	00	00	0F	009EC	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009F0	.RAD50	\XXX XX\			
00	00	00	0F	009F4	.BYTE	15, 0, 0, 0			
03	D8	99	D8	009F8	.RAD50	\XXX XX\			
00	00	00	0F	009FC	.BYTE	15, 0, 0, 0			
30	C0	06	E4	00A00	.RAD50	\ADDG2 \			
00	00	03	B2	00A04	.BYTE	-78, 3, 0, 0			
30	E8	06	E4	00A08	.RAD50	\ADDG3 \			
00	00	38	B3	00A0C	.BYTE	-77, 59, 0, 0			
30	C0	7A	0A	00A10	.RAD50	\SUBG2 \			
00	00	03	B2	00A14	.BYTE	-78, 3, 0, 0			
30	E8	7A	0A	00A18	.RAD50	\SUBG3 \			
00	00	38	B3	00A1C	.BYTE	-77, 59, 0, 0			
30	C0	54	94	00A20	.RAD50	\MULG2 \			
00	00	03	B2	00A24	.BYTE	-78, 3, 0, 0			
30	E8	54	94	00A28	.RAD50	\MULG3 \			
00	00	38	B3	00A2C	.BYTE	-77, 59, 0, 0			
30	C0	1A	7E	00A30	.RAD50	\DIVG2 \			
00	00	03	B2	00A34	.BYTE	-78, 3, 0, 0			
30	E8	1A	7E	00A38	.RAD50	\DIVG3 \			
00	00	38	B3	00A3C	.BYTE	-77, 59, 0, 0			
2C	10	16	44	00A40	.RAD50	\CVIGB \			
00	00	00	B2	00A44	.BYTE	-78, 0, 0, 0			
2F	58	16	44	00A48	.RAD50	\CVIGW \			
00	00	01	B2	00A4C	.BYTE	-78, 1, 0, 0			
2D	A0	16	44	00A50	.RAD50	\CVIGL \			
00	00	02	B2	00A54	.BYTE	-78, 2, 0, 0			
71	A4	16	44	00A58	.RAD50	\CVIRGL \			
00	00	02	B2	00A5C	.BYTE	-78, 2, 0, 0			
0D	98	16	44	00A60	.RAD50	\CVIBG \			
00	00	03	B2	00A64	.BYTE	-126, 3, 0, 0			
90	D8	16	44	00A68	.RAD50	\CVIWG \			
00	00	03	92	00A6C	.BYTE	-110, 3, 0, 0			
4C	18	16	44	00A70	.RAD50	\CVTLG \			
00	00	03	A2	00A74	.BYTE	-94, 3, 0, 0			
2B	C0	06	BA	00A78	.RAD50	\ACBG \			
20	01	38	B4	00A7C	.BYTE	-76, 59, 1, 32			
2B	C0	53	AE	00A80	.RAD50	\MOVG \			

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SYMBOLS
LIS

SMGRTL

SMGBLDRM
MAP

SDAMSG
LIS

VAXINST
LIS

SMGMAPTRM
MAP

SMGKCB
SDL

VALIDATE
LIS

STACKS
LIS

SMGDEF
SDL

SMGKDE
SDL

SMGSHR
MAP