

GETTPE
STORAGE ALLOCATION.

COMPASS - VER 2.

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ADDRESS LENGTH

BINARY CONTROL CARDS.

0 0 IDENT GETTPE
0 END

EXTERNAL SYMBOLS.

DF:CLO DF:OPRO DF:OPRW EC:RTRN DF:DTCH EC:CIN DF:CRLK

```

IDENT GETTPE
MACRO L,A
A BSS 0
ENDM
ORG 0
BSSZ 2
DATA 0LGETTPE+0LCCLASS
DATA 2
DATA 20
VFD 60/ENDWD * FIELD LENGTH
VFD 60/GETFILE * ENTRY POINT
DATA 50 * CLIST SIZE
VFD 60/GETFILE * SCRATCH FILE SIZE
DATA 0,0 * SCRATCH FILE NAME
DATA 0,0 * FILE ADDRESS, CM ADDRESS
VFD 60/GETFILE WORD COUNT
DATA 0 * READ WRITE ENTRY
DATA 0LS
VFD 60/GETFILE,60/GETFILE * FILE ADDRESS, CM ADDRESS

VFD 60/ENDWD=GETFILE * WORD COUNT
DATA 1 * READ ONLY
DATA -1 * END OF MAP SPECIFIERS
DATA 0LOPERCL,0LOPERATE

DATA 0
C.READ EQU 1
C.RFILE EQU 3
C.WFILE EQU 4
C.SENDE EQU 5
C.GETE EQU 6
C.OPER EQU 14
C.TFILE EQU 20
C.NEWFIL EQU 21
C.TREQ EQU 22
C.TRSP EQU 23
ORG 100B
RFILEIO L
VFD 60/C.RFILE,60/C.TFILE
BSSZ 3
WFILEIO L
VFD 60/C.WFILE,60/C.NEWFIL
BSSZ 3
SENDEV L
VFD 60/C.SENDE,60/C.TREQ
BSSZ 2
GETV L
VFD 60/C.GETE,60/C.TRSP
MKBLK L

```

120 4000000000 X
 0000000016
 121 00000000000000000025
 122
 123 00000000000000000001
 124
 124 4000000000 X
 0000000016
 125 000000000000000025
 126
 126
 127
 130 4000000000 X
 0000000016
 131 000000000000000025
 132 777777777777777776
 134 000000000000000000
 135 000000000000000000
 136 000000000000000000
 137 4000000000 X
 0000000016
 140
 140 00000001100100000101
 141
 1141
 1142
 1452
 1453
 1454

VFD 1/1,29/=XDF:CBLK,30/C.OPER,60/C.NEWFILE
 BSSZ 1
 MOVECAP L DATA I . WORD COUNT FOR DISK SYSTEM
 VFD 1/1,29/=XEC:CIN,30/C.OPER,60/C.NEWFILE
 FROMC L
 BSSZ 1
 TOC BSSZ 1
 DETACH VFD 1/1,29/=XDF:DTCH,30/C.OPER,60/C.NEWFILE
 LASTBANP DATA -1,1
 LASTBANW DATA 0
 SDEVIC DATA 0
 RETURN VFD 1/1,29/=XEC:RTRN,30/C.OPER
 TAPECMD L
 VFD 12/0,12/1,12/100IB,12/0,12/10IB
 CMBUFF BSSZ 1000B
 ERRBIT BSSZ I
 DIRECT BSSZ 200
 DPTR BSSZ 1
 LEN BSSZ 1
 ENTRY BSSZ 4
 SENDV MACRO EVENT
 LOCAL TRY
 TRY BSS 0
 SA2 ERRBIT
 IF -REG,EVENT
 SA6 EVENT
 ELSE
 SA6 EVENT
 ENDIF
 BX6 X6*X2
 SA6 SENDV+2
 XJ SENDV
 XJ GETV
 MA6 1
 BX2 X6*X7
 SA1 ERRBIT
 BX6 X2-X1
 SA6 A1
 LX7 47
 NG X7,TRY SENSE EXTERNAL REJECT
 LX7 60-47
 ENDM
 XJ MACRO WHERE,OFF
 * VFD 12/0130B,18/WHERE,30/OFF

```
ENDM
FREAD MACRO FA,CNT,WA
  SX6 FA
  $A7 WA
  $A6 RFILEIO*2
  $A7 RFILEIO*3
  SX6 CNT
  $A6 RFILEIO*4
  XJ RFILEIO+1
  JP RECRASH
ENDM
FWRITE MACRO FA,CNT,WA
  SX6 FA
  $A7 WA
  $A6 WFILEIO*2
  $A7 WFILEIO*3
  SX6 CNT
  $A6 WFILEIO*4
  $B7 *+1
  XJ WFILEIO+1
  JP NEWBLK
ENDM
MOVE MACRO FROM,TO
  SX6 FROM
  $A7 TO
  $A6 ERMC
  $A7 TOC
  XJ MOVECAP
ENDM
GET MACRO A,B
  IF -REG,A,B
    $A1 A.
    $A2 B.
    $B6 BO
    $B1 ENTRY
    $B7 C,NEWFIL
    XJ CALLBEAD
ENDM
PUT MACRO A,B
  $B6 I
  $B1 ENTRY
    $B7 0
    XJ CALLBEAD
ENDM
OPEN      MACRO
  XJ      OPEN,I0000038
  EQ      -1
  VFD     30/*+1,60/0,30/1,30/C,NEWFIL
ENDM
OPENRO    MACRO
  XJ      OPENRO,10000038
  EQ      -1
  VFD     30/*+1,60/0,30/1,30/C,NEWFIL
ENDM
```

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CLOSE
ENDM
MACRO
XJ
ENDM

CLOSE

1460 GETFILE L
 1460 5110002256 GET FILE,S
 1464 6160000001 PUT
 1467 01300022510001000003 OPENRO
 1473 01300022420000000000 XJ READSELF
 1474 01300022530000000000 CLOSE
 1475 5110002237 GET SELF,OPER
 1501 6160000001 PUT
 1504 7160000002 MOVE Z,C,TFILE
 1507 7160000001 FREAD 1,1,SDEVIC
 1514 5110000136 SAI SDEVIC
 1520 7261000001 MOVE X1,C,TFILE
 1523 7261000002 MOVE A1+1,C,TREQ
 1526 TRYREW SENDV 10B
 1535 0337001540 NG X7,REWOK
 1536 436601 IR X2,REWOK
 5160001141 MX6 I
 0200001526 SAI ERRBIT
 1540 JP TRYREW
 1547 REWOK SENDV 3
 SENDV I
 1556 43060 21730 AX7 24
 1557 11667 15770 MX0 60=12
 0316001540 BX7 =X0*X7
 1560 7160000001 SX6 2
 11667 BX6 X6*X7
 0306001540 NZ X6,REWOK
 7160002005 SX6 I
 1561 BX6 X6*X7 ZR X6,REWOK
 1562 15775 SY5 200SB CLEAR WRITE RING BIT
 7277776657 BX7 =X6*X7
 1563 0317002213 SX7 K7=1120B
 5110000140 NZ X7,CRASH
 SAI TAPECHMD
 1564 SENDV XI * READ TAPE
 1573 7160000001 FREAD 1,200,DIRECT * READ IN FILE NAMES
 1600 5110000140 SAI TAPECHMD
 1601 20749 SENDV XI * READ EOF
 1610 0327001710 L87 24+11-3
 7160000000 PL X7,TPERR
 1611 5160001452 SAI 0PTR
 1612 5110001452 GOLOOP SAI 0PTR
 7271000002 SX7 X1+2
 1613 54710 SA7 A1
 5211001142 SAI X1+DIRECT
 1614 5021000001 SA2 A1+1
 13222 BX2 X2-X2 * ALL FILES LOADED INTO TEMP DIRECT.
 1615 0301001705 ZR X1,OKDONE
 66600 GET X1,X2
 1620 01300022470001000003 OPEN

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1624	5110001452		SA1	OPTR	
		5211001140	SA1	X1-2+DIRECT	
1625	10611	5160001454	BX6	X1	
1626	5140001457		SA6	ENTRY	
		43036	SA4	ENTRY+3	
		11504	MX0	60-30	
1627	15440		BX5	X0*X4	
	21536		BX4	=X0*X4	* NEXT FILE ADDRESS TO GET BLOCK
		76300	AX5	30	
			SX3	80 * ZERO FILE ADDRESS	
1630			COPYL	L	
1630	5110000140		SA1	TAPECMMD	
1631			SENDV	X1	
1640	0337001642	0347001644	NG	X7,TESTEOF	
1641	43001		IN	X7,COPYGD	
	13110		MX0	1	
			BX1	X1-X0	
		0200001630	JP	COPYL	* RETRY WITH ERROR BIT TOGLED
1642			TESTEOF	L	
1642	20740	0327001710	LX7	24+11-3	
			PL	X7,TPERR	
1643	0200001677		JP	OKFIN	
1644			COPYGD	L	
1644	7160000000		FREAD	0+1,LEN	
1651	5120001453	7160000005	SZ2	LEN	
1652	27606		SX6	S	
	24606		NX6	X6	
		27202	PX2	X2	
			FX2	X2/X6	
1653	26272	44226	UX2	X2+B7	
			LX2	X2,B7	
		0302001630	ZH	X2,COPYL	
1654	7160000001		FREAD	1,X2,CNBUFF	
1661	73630		ENWRITE	X3,X2,CNBUFF	
1667	36332		IX3	X3+X2	
		0800001630	JP	COPYL	
1670			NEWBLK	L	
1670	10644		SX6	K4	
	36448		IX4	K4+X5	
		5160000122	SA6	MKBBLK+2	
1671	01300001200000000000		XJ	MKBBLK	
1672	37665			IX6	X6-X5
		10755	BX7	X5	
		5160001457	SAS	ENTRY+3	
1673	73550		SX5	X5	
	37665	10577	IX6	X6-X5	* LAST BLOCK IN FILE
1674	0336001676	5160000132	BX5	X7	
1675	01300001300000000000		NG	X6-ZZZ	
1676	0270000000	ZZZ	SA6	DETACH+2	
1676			XJ	DETACH	
			BSS	0	
			JP	B7	

<pre> 1677 1677 5110001457 43036 11601 1700 12664 54610 6160000001 1703 01300022530000000000 1704 0200001612 1705 6160000005 6110002233 1706 01300022410000000000 1707 01300001370000000000 1710 6160000005 6110002224 1711 01300022410000000000 1712 01300001370000000000 1713 </pre>	<pre> OKFIN L SA1 ENTRY+3 MX0 30 BX6 X0*X1 BX6 X6*X4 SA6 A1 PUT CLOSE JP BOLOOP OKDONE B86 S SB1 OKMESS XJ CALLBEAD XJ RETURN TPEERR B86 S SB1 BADMESS XJ CALLBEAD XJ RETURN ASCII XTEXT MACRO =,CDC,TTY </pre>	<pre> ASCII =,CDC,TTY </pre>
<pre> 2015 2213 6160000005 6110002216 2214 01300022410000000000 2215 01300001370000000000 2216 000000000000000000000000 2224 000000000000000000000000 2233 000000000000000000000000 2237 15012324052200000000 2240 17200522012408000000 2241 0000000000000000000001 2242 0000000000000000000003 2243 0000000000000000000025 2244 0000000000000000000000 2245 0000000000000000000000 2246 0000000000000000000000 2247 4000000000000000000000 0000000000000000000016 2250 0000000000000000000025 2251 4000000000000000000000 0000000000000000000016 2252 0000000000000000000025 2253 4000000000000000000000 0000000000000000000016 2254 0000000000000000000025 2255 6074103300000000000000 2256 07052424200500000000 2257 2300000000000000000000 2260 0000000000000000000000 2261 </pre>	<pre> OPEN VFD I/1,29/=XDF:OPRW,30/C,OPER,60/C,NEWFILE OPENRO VFD I/1,29/=XDF:OPR0,30/C,OPER,60/C,NEWFILE CLOSE VFD I/1,29/=XDF:CLD,30/C,OPER,60/C,NEWFILE </pre> <p style="text-align: center;">FINALBN VFD 3/6,3/0,18/7410338,36/0 GETFILE. DATA OLGETTPE S, DATA GLS RCRASH DATA 0 * ECS SYSTEM ERROR ENDRD BSS 0 END</p>	<pre> 3 1 </pre>
<pre> 35417 STORAGE USED 6600 ASSEMBLY </pre>	<pre> 1259 STATEMENTS 7.807 SECONDS </pre>	<pre> 128 SYMBOLS 473 REFERENCES 000006 INVENTED SYMBOLS </pre>

GET TYPE
ERROR DIRECTORY.

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1 TYPE ERROR LOCATION SYMBOL BAD. SYMBOL NOT DEFINED.
OCCURRED ON PAGES 8

3 TYPE ERROR DUPLICATE MACRO DEFINITION. NEW ONE OVERRIDES.
OCCURRED ON PAGES 8

GET TYPE
SYMBOLIC REFERENCE TABLE.

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ASCII	0		8/26	8/26	8/26	8/27	8/27	8/27	8/27	8/28
ASCIIA	41		8/26	8/26	8/27	8/27	8/27	8/27	8/28	
ASCIIB	42		8/27							
ASCIID	44		8/26	8/27	8/27	8/27	8/27	8/28		
ASCIIE	45		8/26	8/26	8/27	8/27	8/27	8/28		
			8/26	8/27	8/27	8/27	8/28			
ASCIIF	46		8/27							
ASCIII	51		8/26	8/27	8/27					
ASCIIL	54		8/26	8/27	8/28					
ASCIIN	56		8/26							
ASCIIO	57		8/26	8/26	8/27	8/27	8/27	8/28		
ASCIIP	60		8/26	8/26	8/27	8/28				
ASCIIR	62		8/26	8/26	8/27	8/27	8/27	8/27		
ASCIIT	64		8/26	8/27	8/27	8/27	8/28			
ASCIIV	66		8/27							
ASCIIW	71		8/26							
ASCIIZ	18		8/27							
BADMESS	2224		8/15	8/26 L						
CALLBEAD	2241		6/03	6/08	6/53	8/12	8/23			
			6/04	6/09	8/08	8/16	8/30 L			
CLOSE	2253		6/06	8/08	8/42 L					
CMBUFF	141		3/24 L	7/35	7/36					
COPYGD	1644		7/15	7/23 L						
COPYL	1630		7/11 L	7/18	7/33	7/37				
CRASH	2213		6/35	8/21 L						
CRMMSG	3216		8/22	8/25 L						
C.BEAD	11		8/27 D	8/30						
C.GETE	10		2/31 D	2/51						
C.NEWFIL	9		2/34 D	3/03	3/15	6/05	6/53	8/32	8/41	
			2/44	3/09	6/03	6/08	7/01	8/38	8/44	
C.OPER	16		2/32 D	3/02	3/08	3/14	3/21	8/37	8/40	8/43
C.RFILE	10 11 12		2/28 D	2/39	6/31					
C.SENDE	10 11 12		2/30 D	2/47						
C.TFILE	10 11 12		2/33 D	2/40	6/10	6/13				
C.TREQ	10 11 12		2/35 D	2/48	6/14					
C.TRSP	27		2/36 D	2/52	6/15					
C.WFILE	4		2/29 D	2/43						
DETACH	130		3/13 L	7/50 S	7/51					
DF:CBLK	0	EXTERNAL*	3/01							
DF:CLD	0	EXTERNAL*	8/42							
DF:DTCK	0	EXTERNAL*	3/13							
DF:OPRO	0	EXTERNAL*	8/39							
DF:OPRW	0	EXTERNAL*	8/36							
DIRECT	1142		3/26 L	6/39	6/48	7/02				
DPTR	1452		3/27 L	6/44 S	6/45	7/01				
EC:ICIN	0	EXTERNAL*	3/07							
EC:RTRN	0	EXTERNAL*	3/20							
ENDWD	2251		2/10	2/22	8/49 L					
ENTRY	1454		3/29 L	6/04	6/09	7/04 S	7/45	8/08		
			6/03	6/08	6/53	7/05	8/02	8/35		
ERRBIT	1141		3/25 L	6/16	6/22	6/23	6/38	6/41	7/14	
			6/16	6/19 S	6/22	6/23	6/38	6/41	7/14	
FINALBAN	2255		8/45 L							

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FROMC	126	3/10 L	6/10 S	6/13 S	6/14 S	6/15 S		
GETFILE	1460	2/11	2/13	2/16	2/20	2/21	2/22	6/01 L
GETFILE.	2256	6/02	8/46 L					
GETV	116	2/50 L	6/16	6/22	6/23	6/38	6/41	7/14
GOLoop	1612	6/45 L	8/09					
LASTBANP	134	3/17 L						
LASTBANW	135	3/18 L						
LEN	1453	3/28 L	7/25	7/25				
MKBLK	120	2/53 L	7/41 S	7/42				
MOVECAP	124	3/06 L	6/10	6/13	6/14	6/15		
NEWBLK	1670	7/36	7/38 L					
OKONE	1705	6/31	8/10 L					
OKFIN	1677	7/22	8/01 L					
OKMESS	2233	8/11	8/27 L					
OPEN	2247	6/33	8/36 L					
OPENRO	2251	6/04	8/39 L					
OPER.	2240	6/08	8/29 L					
PTR	14	8/25 D	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
		8/26	8/26	8/27 D	8/27 D	8/27 D	8/27 D	8/28
		8/26 D	8/26 D	8/27	8/27	8/27	8/27	8/28
RORASH	2260	6/11	6/39	7/25	7/35	8/48 L		
READSELF	2242	6/05	8/31 L					
RETURN	137	3/20 L	8/13	8/17	8/24			
REWORK	1540	6/16	6/17	6/21 L	6/28	6/31		
RFILEIO	100	2/38 L	6/11 S	6/39 S	6/39	7/25 S	7/35 S	7/35
		6/11 S	6/11	6/39 S	7/25 S	7/25	7/35 S	
SDEVIC	136	3/19 L	6/11	6/11				
SELF,	2237	6/07	8/28 L					
SENDY	112	2/46 L	6/16	6/22	6/23	6/38	6/41	7/14
		6/16 S	6/22 S	6/23 S	6/38 S	6/41 S	7/14 S	
S.	2257	6/03	8/47 L					
TAPECMND	140	3/22 L	8/36	6/39	7/12			
TESTEOF	1642	7/14	7/19 L					
TOC	127	3/12 L	6/10 S	6/13 S	6/14 S	6/15 S		
TPERR	1710	6/42	7/21	8/14 L				
TRYREW	1526	6/15 L	6/20					

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WFILEIO	105	2/42 L	7/36 S	7/36 S	7/36
ZZZ	1676	7/49	7/52 L		