

STEP : MAIN DIRECTORY AND NAME TAG TO ROC INITIALIZER
STORAGE ALLOCATION.

COMPASS - VER 2.

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ADDRESS LENGTH BINARY CONTROL CARDS.

3733 3733 IDENT DTPI
L.FL END

BLOCKS	TYPE	ADDRESS	LENGTH
ABSOLUTE*	ABSOLUTE	0	44
PROGRAM*	LOCAL	0	3654
LITS	LOCAL	3654	57

ENTRY POINTS.

M.DP	-	0	OP.TEMP	-	1	CL.CMMD	-	3	OP.DRCT	-	6
M.DO	-	1	OP.TEMP	-	1	CF.DTPX	-	4	CL.DRCT	-	7
AB.MSTA	-	3	CA.UFIL	-	1	C.RORJ	-	5	FF.TYPX	-	10
CA.TEMP	-	1	CL.UPS	-	2	CC.DRCT	-	5	L.RORJ	-	4

EXTERNAL SYMBOLS.

L.DTYS	L.DNT	DA: MVSP	DN: CLAO	SN: CPSN	DR: DLPR	DR: ASCL	EC: UDAT
L.DRCL	EC: CCLS	DN: CLAW	DN: CLDN	DR: DABN	DR: ADPR	CA.ACKY	EC: COPR
EC.DNTN	EC: CCAP	CA.SBPD	DN: ODN2	DR: RNOS	DR: CHNM	EC: BDAT	EC: CCL
EC.AKN	EC: MCCA	SD: CONV	CA.DYNT	DR: GNOS	DR: RMLK	DR: UACC	EC: CBLK
CC.DTR	EC: DSCP	SD: MAKE	DN: ODN1	DR: GNOB	DR: RMDE	DR: CLDR	EC: CFIL
CF.DTR	EC: RPAR	DR: USTR	DN: CRDN	CA: DSKF	DR: SFLK	EC: UCAP	EC: SEV
FF.TYPS	DA: STAG	DR: SCDR	SN: OSN2	DR: GN00	EC: ACAP	CA.DRCT	EC: CEVC
EC.DNT	DA: INCM	DR: SCDF	SN: OSN1	DR: DSPN	DR: HDLK	DR: OPDR	EC: MCAP
FF.DNT	DN: CFLG	DR: CLKS	CA: STNT	DR: CSUL	DR: CRDR	DR: DBUG	DF: WRIT
CL.DNT	DA: DSP	AK: CRAK	SN: OSSN	DR: SSUL	DR: CRFI	EC: FDAT	EC: COUT

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IDENT	DTP1
EXT	L,DTYPE,L,DRCL,EC,DNTN,EC,AKN
EXT	CO,DIR,CF,DIR,FF,TYPS
EXT	En,DNT,EF,DNT,CL,DNT,L,DNT
LIST	N

XTEXTS REQUIRED:

- * 1) SYSSUBP,MACRNs - BUILDER SUBPROCESS DESCRIPTOR MACROS
- * 2) SYSMAC,DIRSYO - SYSTEM-CALLING MACROS
- * 3) DROPS,OPERS - DESCRIPTIONS OF DIRECTORY ACTIONS
- * 4) ORBITS,XTEXT - OPTION DECLARATIONS
- * 5) TYPES,XTEXT - ECS SYSTEM CAPABILITY TYPE DECLARATIONS

	SYSSURP	XTEXT	.. DESCRIPTOR MACRO DEFINITIONS
	ORG	0	.. DESCRIPTOR STARTS AT RA
1	TYPE	1	.. (READ DESCRIPTOR TYPE = 0)
2	NAMES	CLASS,ROOT,CALL,CL.DIR1,SF.DI1	
3	INTEGERS	51,L,FL,ENTRY,L,RW	
4	MAP	SF.DIR1,0,0,0+L,RW,0 .. READ/WRITE ENTRY	
5	MAP	CF.DIR1,STARTR0,STARTR0,L,FL,T .. READ-ONLY ENTRY	
6	MAPEND		
7	AB.MST0	CAP	.. ALLOCATION BLOCK TO FUND CREATED OBJECTS
8	CA.TEMP	CAPBSS	.. USED DURING AUTHORIZATION CREATION
9	OP.TEMP	CAPBSS	.. USED DURING OPERATION CREATION
10	C.TEMP	CAPBSS	.. USED FOR VARIOUS CREATIONS
11	CA.DFIL	CAP	.. CAPABILITY AUTHORIZATION FOR DISK FILES
12	CL.OPRS	CAP	.. MAIN OPERATION C-LIST
13	CL.CMMDS	CAP	.. C-LIST IN WHICH TO PLACE THE
14	*		IMPLICIT ACCESS-KEY
15	CF.DIRX	CAP	.. DIRECTORY SYSTEM CODE FILE
16	C.ROBJ	CAPBSS	.. START OF OBJECTS TO BE RETURNED
17	CC.DRCT	CAPBSS	.. CLASS CODE OF DIRECTORY SYSTEM
18	OP.DRCT	CAPBSS	.. INITIAL CALL OPERATION
19	CL.DRCT	CAPBSS	.. AUTHORIZATION (AND AK FILE) C-LIST
20	EF.TYPR	CAPBSS	.. TYPE NUMBER FILE
21	ENTRY	L.ROBJ	
22	4	EQU	.. NUMBER OF RETURN OBJECTS
23	L.ROBJ	CAPX+C.ROBJ	
24	CAPEND		
25	USE	*	
26	STARTR0	BSS	.. SYMBOL FOR MAP DESCRIPTOR
27	NAMES	NAME	CC.DIRSYS .. NAME OF CLASS CODE
28		NAME	OP.DIRSYS .. NAME OF INITIAL CALL OPERATION
29		NAME	CL.DRCTSYS .. NAME OF DIRECTORY SYSTEM GOODIE C-LIST
30		NAME	EF.DSKTYP .. NAME OF TYPES FILE
31	DATA	0	.. MARK END OF RETURNED OBJECTS

2
5
20
44
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3
* CREATE AN EVENT CHANNEL
CREVC MACRO ALLOCBLK,WCINDEX,LENGTH
CAPAR 0.=XCL,OPS,=XEc:CEVC
CAPAR 1.ALLOCBLK
DATUM 2,WCINDEX
DATUM 3.LENGTH
SYSCALL IPLIST
ENOM

* CREATE A CAPABILITY LIST

CRLIST MACRO ALLOCBLK,WCINDEX,LENGTH
CAPAR 0.=XCL,OPS,=XEc:CCL
CAPAR 1.ALLOCBLK
DATUM 2,WCINDEX
DATUM 3.LENGTH
SYSCALL IPLIST
ENOM

* CREATE AN OPERATION

COPR MACRO ALLOCBLK,WCINDEX,OPRTYP,CLSSCODE,NPS
CAPAR 0.=XCL,OPS,=XEc:COPR
CAPAR 1.ALLOCBLK
DATUM 2,WCINDEX
DATUM 3.OPRTYP
CAPAR 4,CLSSCODE
DATUM 5,NPS
SYSCALL IPLIST
ENOM

* SPECIFY A USER-SUPPLIED CAPABILITY PARAMETER

UCAP MACRO OPR,PSINDEX,TYPE,OPTIONS
CAPAR 0.=XCL,OPS,=XEc:UCAP
CAPAR 1,OPR
DATUM 2,PSINDEX
DATUM 3,TYPE
DATUM 4,OPTIONS
SYSCALL IPLIST

ENDM

* SPECIFY AN ANY-CAPABILITY PARAMETER

ACAP	MACRO	OPR,PSINDEX,OPTIONS
	CAPAB	0.=XCL,OPS,=EXEC:ACAP
	CAPAB	1.OPR
	DATUM	2.PSINDEX
	DATUM	3.OPTIONS
	SYSCALL	IPLIST
	ENDM	

* FIX A CAPABILITY PARAMETER SPECIFICATION

FCAP	MACRO	OPR,PSINDEX,CAP
	CAPAB	0.=XCL,OPS,=EXEC:FCAP
	CAPAB	1.OPR
	DATUM	2.PSINDEX
	CAPAB	3.CAP
	SYSCALL	IPLIST
	ENDM	

* SPECIFY A BLOCK-CAPABILITY PARAMETER

BCAP	MACRO	OPR,PSINDEX,MAXLEN
	CAPAB	0.=XCL,OPS,=EXEC:BCAP
	CAPAB	1.OPR
	DATUM	2.PSINDEX
	DATUM	3.MAXLEN
	SYSCALL	IPLIST
	ENDM	

* SPECIFY A USER-SUPPLIED DATUM PARAMETER

UDAT	MACRO	OPR,PSINDEX
	CAPAB	0.=XCL,OPS,=EXEC:UDAT
	CAPAB	1.OPR
	DATUM	2.PSINDEX
	SYSCALL	IPLIST
	ENDM	

* FIX A DATUM PARAMETER SPECIFICATION

FDAT	MACRO	OPR,PSINDEX,DAT
	CAPAB	0.=XCL,OPS,=EXEC:FDAT
	CAPAB	1.OPR
	DATUM	2.PSINDEX
	DATUM	3.DAT
	SYSCALL	IPLIST
	ENDM	

* SPECIFY A BLOCK-DATA PARAMETER

BT 1 : DATA DIRECTORY AND NAME TAG TPKOC INITIALIZER.
SYSTEM-CALLED MACROS

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BDAT	MACRO	0,0R,PSINDEX,MAXLEN
CAPAR		0.=XCL,OPS,=XEC:BDAT
CAPAR		1,OPR
DATUM		2,PSINDEX
DATUM		3,MAXLEN
SYSCALL		IPLIST
ENDM		

* SUBPROCESS ENTRY PATTERNS

5	00000000	USE	*	
6	00000000	PS		.. INITIAL ROOT-CALL ENTRY
6	00000000	PS		.. INTERRUPT ENTRY
7	00000000	PS		.. ERROR ENTRY
1		ENTRY	0SS	.. NORMAL ENTRY

* CREATE A C-LIST TO HOLD THE DIRECTORY SYSTEM OBJECTS.

11 0130+0367P +

SYSCALL CL.DRCT

* CREATE EF.TYPS, WHICH HOLDS THE TYPE NUMBERS OF DISK SYSTEM
* CAPABILITY TYPES.

14 0130+03676 +
15 0130+03674 +

SYSCALL CFF.TYPS .. CREATE FILE
SYSCALL CRTYPS .. CREATE DATA BLOCK

* PUT THE DISK FILE-TYPE AUTHORIZATION, *CA.DSKFILE# IN THE GLOBAL
* INITIALIZATION DIRECTORY (GIDI), INTO THE FIRST SLOT IN CL.DRCT. IN
* PARALLEL TO CL.DRCT WILL BE KEPT AN ARRAY OF AUTHORIZATION TYPE
* NUMBERS, USED TO CREATE THE DIRECTORY OPERATIONS

16 0130+03677 +
17 517 00000

SYSCALL DRPCA.OF
SA7 TYPES#0 .. LCA.DSKF = #1

18 0130+0367P +

SYSCALL ONTCAP.OF .. MOVE TO CL.DRCT

* NOW CREATE (L.DTYPs - 1) MORE AUTHORIZATIONS, BUT THEIR TYPE NUMBERS
* IN THE ARRAY -TYPES-, AND PUT THE CAPABILITIES IN CL.DRCT

19 5110+00001
20 63210777776 X
21 0130+03676 +
22 5173+00006 +
23 7160000002
24 6110+00001
25 0321000017 +

SBI 1
SR2 L.DTYPs-1 .. INDEX OF LAST TYPE TO CREATE
LOOP SYSCALL CCA.DOBJ
SYSCALL DRPCA.DO
SA7 TYPES#B1
CAPOUT CL.DRCT,B1,CA TEMP
SBL B1+1
LE B1+B2,LOOP

* COPY *TYPES* TO EF.TYPS; TURN OFF ALL OPTIONS EXCEPT READ
* AND PUT-IN-MAP.

26 7160000002
27 5110+03677 +
28 7160000002
29 7160000002

WRITE EF.TYPX,0,TYPES,L.DTYPs
SAI TYPOPTS
COPYCAP EF.TYPX,EF.TYPX,(,X1)
CAPOUT CL.DRCT,EF.TYPS,EF.TYPX

* CREATE THE IMPLICIT ACCESS-KEY, AND PUT IT IN THE 2ND ENTRY OF
* CL.CMD.

30 0130+03672 +
31 0130+03696 +

SYSCALL CPNULLAK
SYSCALL MAVNULL

* CREATE THE DNT.UNIQUE-NAME-LOCKING-CHANNEL, OF LENGTH 2 (FOR THE
* NEXT-NUMBER EVENT AND THE YOU-LOSE EVENT.)

32 0130+03692 +
33 0130+03696 +

SYSCALL CDECOUNT
SYSCALL MOVECOUNT

EDIT : FILE DIRECTORY AND NAME TAG PROG INITIALIZER
CREATE VARIOUS OBJECTS

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* CREATE THE ACCESS-KEY-NUMBER EVENT CHANNEL, OF LENGTH 2.

63 7160000002 + SYSCALL CRECAKN
64 7160000006 + SYSCALL MOVECAKN

* CREATE THE DYNAMIC NAME TABLE LOCKING EVENT CHANNEL.

65 7160000002 CREVC AR.MSTR,C TEMP,1
74 7160000002 CAPOUT CL.DRCT,EC.DNT,C TEMP
113 7160000002 SENDEV (CL.DRCT,EC.DNT),0

* CREATE THE DYNAMIC NAME TABLE ECS FILE, AND ITS DATA BLOCK.

112 7160000002 CAPAB 0,CL.OPS,=XEC:CFILE
7160000000
7160000001
7160000001
7160000001
7160000002 + DATUM 2,C TEMP
121 7160000002 DATUM 3,1
122 7160000002 DATUM 4,LEVEFONT
SYSCALL IPLIST
CAPOUT CL.DRCT,EF.DNT,C TEMP
131 7160000002 CAPAB 0,CL.OPS,=XEC:CBLK
7160000007 CAPAR 1,CL.DRCT,EF.DNT
132 7160000002 DATUM 2,0
137 7160000002 SYSCALL IPLIST

* CREATE THE DYNAMIC NAME TABLE C-LIST.

140 7160000002 CRCLIST AR.MSTR,C TEMP,L,DNT
147 7160000002 CAPOUT CL.DRCT,CL.DNT,C TEMP

* CREATE A CLASSCODE FOR THE DIRECTORY SYSTEM SUBPROCESS, TO BE
* ENTERED IN THE SID AS #CC.DRCTSYS#

156 7160000002 + SYSCALL CCSCODE
157 7160000002 CAPOUT CL.DRCT,CC.DIR,CC.DRCT

* MOVE THE DIRECTORY SYSTEM CODE FILE CAPABILITY INTO CL.DRCT

166 7160000002 CAPOUT CL.DRCT,CF.DIR,CF.DIRX

* CREATE THE OPERATIONS USED TO CALL THE DIRECTORY SUBPROCESS, ALL
* OF WHICH HAVE A FIXED FIRST PARAMETER SPECIFICATION. THIS IS A
* DATUM, THE INDEX IN A JUMP TABLE OF ACTION ADDRESSES. PLACE
* THE CAPABILITIES FOR THESE OPERATIONS IN CL.OPS

* THE -ACTOCLS- EXT IS USED TO DRIVE THIS PROCESS, THUS THE JUMP
* TABLE INDICES ARE DEPENDENT ON THE ORDER OF THE ACTION DECLARATIONS.

MACRO ACTION,NAME,NO:PS
COPR AR.MSTR,OP,TEMP,0,CC.DRCT,1+N:PS
CAPOUT CL.OPS,=X#PRE#NAME,OP,TEMP

0101 : PATH DIRECTORY AND NAME TAG TPROC INITIALIZER
CREATE VARIOUS OBJECTS

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	UDAT	OP TEMP,0
	FDAT	*.*,:I:
:I:	SET	:I+1
:J:	SET	0
	ENDM	
0	:I:	SET 0
	OPGROUP	MACRO PREFIX
	PRF	MICRO 1.*PREFIX/
		ENDM
3	TEMP	MACRO CAP,NAME,TYPE,OPTIONS
	LOCAL	LTT
	MICRO	1.*TYPE/
	IFC	E*,/*TEMP*/T/
	SX1	TYPE
	ELSE	=*TYPE
	SX1	TYPE\$*X1
	SAL	
	ENDIF	
	SA2	LTT
	UCAP	*,:J:,X1,(,X2)
:J:	SET	:I+1
	USE	LTT\$
LIT	VFD	6*OPTIONS
	USE	*
	ENDM	
:J:	MACRO AYC,NAME,OPTIONS	
	LOCAL	LTT
	SAL	LTT
	ACAP	*,:J:,(),X1)
	SET	:I+1
	USE	LTT\$
LIT	VFD	6*OPTIONS
	USE	*
	ENDM	
:J:	MACRO BKC,NAME,LENGTH	
	BCAP	*,:J:,LENGTH
	SET	:I+1
	ENDM	
:J:	MACRO DAT,NAME	
	UDAT	*,:J:
	SET	:I+1
	ENDM	
:J:	MACRO BIKD,NAME,LENGTH	
	BDAT	*,:J:,LENGTH
	SET	:I+1
	ENDM	

ENDACT MACRO
ENDM

* CREATE THE DIRECTORY SYSTEM INITIAL CALL OPERATION, WITH A SINGLE
* FIXED PARAMETER OF -1

175 716000002 COPR AR.MSTR,OP.DRCT,0,CC.DRCT,1
216 716000002 UDAT OP.DRCT,0
214 716000002 FDAT *,*, -1

221 LIST X
OBBITS XTEXT
MACRO OPT,NAME
OB.NAME EQU :0:
:0: SET **;0:
ENDM

OPTORG MACRO
IFC ME,/N//
:0: SET
ELSE SET
:0: ENDIF
ENDM

*

* ALLOCATION BLOCK

*

1	OB.DSTRY	EQU	1	OBBITS	1
2	OB.CHMAN	EQU	2	OBBITS	1
4	OB.CREAB	EQU	4	OBBITS	1
10	OB.CRECL	EQU	10B	OBBITS	1
20	OB.CRFTL	EQU	20B	OBBITS	1
40	OB.CRFBR	EQU	40B	OBBITS	1
100	OB.CRESP	EQU	100B	OBBITS	1
200	OB.CREFC	EQU	200B	OBBITS	1
400	OB.ALORD	EQU	400B	OBBITS	1
1000	OB.GIVE	EQU	1000B	OBBITS	1
2000	OB.GET	EQU	2000B	OBBITS	1
4000	OB.GOD	EQU	4000B	OBBITS	1
10000	OB.INCHR	EQU	10000B	INCREMENT CHARGE RATE	1
20000	OB.GIVCP	EQU	20000B	GIVE CP TIME	1
40000	OB.GETCP	EQU	40000B	GET CP TIME	1
100000	OB.GIVMT	EQU	100000B	GIVE MOT SLOTS	1
200000	OB.GETMT	EQU	200000B	GET MOT SLOTS	1
400000	OB.INMTR	EQU	400000B	INCREMENT CHARGE METER	1
*				OBBITS	1
*				OBBITS	1
4	OB.CPYIN	EQU	4B	OBBITS	1
10	OB.CPYOT	EQU	10B	OBBITS	1
20	OB.LOCCL	EQU	20B	OBBITS	1

	*			OBBITS	1	
	* FILES			OBBITS	1	
	*			OBBITS	1	
4	08.CRFL	EQU	4B	OBBITS	1	
10	08.DELRL	EQU	10B	OBBITS	1	
20	08.RDFL	EQU	20B	OBBITS	1	
40	08.WFILE	EQU	40B	OBBITS	1	
100	08.PLMAP	EQU	100B	OBBITS	1	
200	08.FDAE	EQU	200B	OBBITS	1	
400	08.OPEN	EQU	400B	(DISK FILE) OPEN FILE	OBBITS	1
1000	08.CLOSE	EQU	1000B	(DISK FILE) CLOSE DISK FILE	OBBITS	1
2000	08.DCRRL	EQU	2000B	(DISK FILE) CREATE BLOCK	OBBITS	1
4000	08.DDLRL	EQU	4000B	(DISK FILE) DELETE BLOCK	OBBITS	1
10000	08.ATCH	EQU	10000B	(DISK FILE) ATTACH BLOCK	OBBITS	1
20000	08.DTCH	EQU	20000B	(DISK FILE) DETACH BLOCK	OBBITS	1
40000	08.DMAP	EQU	40000B	(DISK FILE) PUT IN MAP	OBBITS	1
100000	08.ECL	EQU	100000B	(DISK FILE) EXCLUSIVE CLAIM	OBBITS	1
200000	08.SCLM	EQU	200000B	(DISK FILE) SHARED CLAIM	OBBITS	1
400000	08.REL	EQU	400000B	(DISK FILE) RELEASE CLAIM	OBBITS	1
1000000	08.FREZ	EQU	1000000B	(DISK FILE) FREEZE FILE	OBBITS	1
2000000	08.TRDY	EQU	2000000B	TEST AND RESET DIRTY BIT	OBBITS	1
4000000	08.XOPN	EQU	4000000B	(DISK FILE) EXCLUSIVE OPEN	OBBITS	1
	*			OBBITS	1	
	* PROCESS			OBBITS	1	
	*			OBBITS	1	
4	08.SDINT	EQU	4B	OBBITS	1	
	*			OBBITS	1	
	* SUBPROCESSES			OBBITS	1	
	*			OBBITS	1	
2	08.TEMP	EQU	2B	OBBITS	1	
4	08.FATHR	EQU	4B	OBBITS	1	
10	08.SPRET	EQU	10B	OBBITS	1	
20	08.PCNT	EQU	20B	OBBITS	1	
40	08.INTSP	EQU	40B	OBBITS	1	
100	08.CALOP	EQU	100B	OBBITS	1	
200	08.SONSP	EQU	200B	OBBITS	1	
400	08.CHMAP	EQU	400B	OBBITS	1	
1000	08.DAE	EQU	1000B	OBBITS	1	
2000	08.STESM	EQU	2000B	OBBITS	1	
	*			OBBITS	1	
	* EVENT CHANNEL			OBBITS	1	
	*			OBBITS	1	
4	08.SNDEV	EQU	4B	OBBITS	1	
10	08.GETEV	EQU	10B	OBBITS	1	
20	08.GTEVF	EQU	20B	OBBITS	1	
	*			OBBITS	1	
	* OPERATIONS			OBBITS	1	
	*			OBBITS	1	
4	08.ADDOR	EQU	4B	OBBITS	1	
10	08.CHTYP	EQU	10B	OBBITS	1	
20	08.CHOPT	EQU	20B	OBBITS	1	
40	08.CPYOP	EQU	40B	.. COPY AN OPERATION	OBBITS	1
	*			OBBITS	1	

CTP1 : INIT DIRECTORY AND NAME TAG TPROC INITIALIZER
CREATE VARIOUS OBJECTS

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* DIRECTORIES			OBBITS	1
* OPTORG			(SINCE OB.CHNAM DOES NOT APPLY)	OBBITS
ACC	OPT		USER DIRECTORY ACCESS	OBBITS
IWPL	OPT		IMPLTCIT ACCESS	OBBITS
*CPFIL	OPT		CREATE (DISK) FILE OWNERSHIP ENTRY	OBBITS
CRLE	OPT		CREATE (HARD- OR SOFT-) LINK ENTRY	OBBITS
OLE	OPT		DELETE LINK ENTRY	OBBITS
INSL	OPT	***** PUT	(DISK OBJECT) IN SOFT-LINK	OBBITS
AAP	OPT		ADD ACCESS-PAIR	OBBITS
DAP	OPT		DELETE ACCESS-PAIR	OBBITS
SSUL	OPT		EQU SUCCESSOR LINK	OBBITS
CSUL	OPT		CLEAR SUCCESSOR LINK	OBBITS
CRDP	OPT		CREATE DIRECTORY OWNERSHIP ENTRY	OBBITS
CHNM	OPT		CHANGE NAME OF EXISTING DIRECTORY ENTRY	OBBITS
SETAG	OPT		SET ACCOUNTING TAG OF DAR IN FUNDING DIREC	OBBITS
*				
MPSW	OPT		CHANGE THE PASSWORD IN THE PROFILE	OBBITS
PESD	OPT		MOVE A RESOURCE OUT OF A DIRECTORY	OBBITS
PESI	OPT		MOVE A RESOURCE INTO A DIRECTORY	OBBITS
DSPAC	OPT		DISK SPACE	OBBITS
SBUISR	OPT		SUB-USERS	OBBITS
MONEY	OPT		MONEY (\$)	OBBITS

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TYPES	XTEXT	.. ECS CAPABILITY TYPES	TYPES	1	
*		OBJECT TYPE ASSIGNMENTS			
*		CAPABILITY TYPES			
*		T.PROC EQU 711			
777	T.PSEUDO EQU	T.PROC	TYPES	1	
777	T.CLIST EQU	767	TYPES	1	
1377	T.FILE EQU	895	TYPES	1	
1577	T.OPER EQU	959	TYPES	1	
1677	T.CLSCD SET	991	TYPES	1	
1737	T.EVCH EQU	1007	TYPES	1	
1757	T.ALLOC EQU	1015	TYPES	1	
1767	T.CAUTH EQU	1019	CAPABILITY CREATING AUTHORIZATION		
*		ALLOCATION TYPES (USED IN BLOCK HEADER WORDS)			
*		DATA BLOCK TYPE, MUST BE ZERO ***			
0	AT.DATA EQU	1	TYPES	1	
1	AT.PROC EQU	2	TYPES	1	
2	AT.CLIST EQU	4	TYPES	1	
4	AT.OPER EQU	5	TYPES	1	
5	AT.EVCH EQU	6	TYPES	1	
6	AT.ALRK EQU	458	TYPES	1	
40	AT.FILE EQU	418	* MUST BE .GE. 40B		
41	BLMTYPES EQU	418	TYPES	1	
*					

			COMPACTON TYPES (USED IN ALLOCATOR WORD OF BLOCK)	TYPES
*				1
*				1
1	GT.PTRR	EQU	• FILE POINTER BLOCK	TYPES
2	GT.DAF	EQU	• DIRECT ACCESS BLOCK	TYPES
6	GT.NORMR	EQU	• NORMAL BLOCKS	TYPES
*				1
*				1
*				1
*				1
*				1
*				1
*				1
*				1
*				1
*				1
*				1
*				1
*				1
*				1
*				1
2	PS.NONE	EQU	2	
3	PS.UDAT	EQU	3	
4	PS.FDAT	EQU	4	
5	PS.FCAP	EQU	5	
6	PS.BLK	EQU	..	
7	PS.UCAP	EQU	7	
DROPS	XTEXT		.. BLOCK DATUM AND CAPABILITY	
			.. CREATE THE OPERATIONS	

511 : DATA DIRECTORY AND NAME TAG PROC. INITIALIZER
DIRECTORY INFORMATION DESCRIPTIONS

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	5	L_NAME	EQU	5	.. (L_NAME * n) = MAXIMUM NUMBER OF CHARACTERS IN A NAME	DIROPS	1
	*					DIROPS	1
	13	L_SHP	EQU	11	.. MAXIMUM NUMBER OF LEVELS IN A LLR-FILE	DIROPS	1
	*					DIROPS	1
221			OPGROUP	Def		DIROPS	1
			*	DEBUG		DIROPS	1
221	7150-Open,2		OPEN	ACTION 0		DIROPS	1
256				ENDACT		DIROPS	1
			*	OPEN A DIRECTORY		DIROPS	1
254	7150-Open,2		OPDR	ACTION 1		DIROPS	1
367	7150-Open,2		DIRECT	CAP CA.DRCT +OR.OPEN <<<<<<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1	
317			*	ENDACT		DIROPS	1
			*	CLOSE A DIRECTORY		DIROPS	1
317	7150-Open,2		CLDR	ACTION 1		DIROPS	1
352	7150-Open,2		DIRECT	CAP CA.DRCT +OR.CLOSE <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1	
362			*	ENDACT		DIROPS	1
			*	REGULAR ASSOCIATIVE ACCESS		DIROPS	1
362	7150-Open,2		IACC	ACTION 3		DIROPS	1
415	7150-Open,2		DIRECT	CAP CA.DRCT,OB.ACC		DIROPS	1
425	7150-Open,2		NAME	BLKD L_NAME		DIROPS	1
433	7150-Open,2		KEY	CAP CA.ACKY,0		DIROPS	1
443				ENDACT		DIROPS	1
			*	ACCESS VIA THE <CAP> LIST		DIROPS	1
443	7150-Open,2		ASCL	ACTION 2		DIROPS	1
475	7150-Open,2		SCAN	CAP T_CLIST		DIROPS	1
506	7150-Open,2		NAME	BLKD L_NAME		DIROPS	1
514				ENDACT		DIROPS	1
			*	CREATE A DISK FILE (NON-SCRATCH)		DIROPS	1

514 - INIT-DIRECTORY AND NAME TAG IPROC INITIALIZER
DIRECTORY OPERATION DESCRIPTIONS

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514	7160000002	CRFT	ACTION	3	DIROPS	1
547	7110000002	DIPCT	CAP	CA.DRCT,OB.CRFIL	DIROPS	1
557	7160000002	NAME	BLKD	L_NAME	DIROPS	1
565	7160000002	SHR	BLKD	L_SHR	DIROPS	1
573			ENDACT		DIROPS	1
					DIROPS	1
				* CREATE A DIRECTORY FNON-SCRATCH1	DIROPS	1
573	7160000002	CRDR	ACTION	4	DIROPS	1
626	7110000002	DIPCT	CAP	CA.DRCT,OB.CRDR	DIROPS	1
626	7160000002	NAME	BLKD	L_NAME	DIROPS	1
644	7160000002	SIZE	DAT		DIROPS	1
651	7160000002	ACRLK	DAT		DIROPS	1
656			ENDACT		DIROPS	1
				* CREATE A HARDLINK DIRECTORY ENTRY	DIROPS	1
650	7160000002	HDLK	ACTION	3	DIROPS	1
711	7110000002	DIPCT	CAP	CA.DRCT,OB.CRLF	DIROPS	1
721	7160000002	NAME	BLKD	L_NAME	DIROPS	1
727	5110003644	DORJ	ANYC	0	DIROPS	1
729			ENDACT		DIROPS	1
				* CREATE A SOFTLINK DIRECTORY ENTRY	DIROPS	1
735	7160000002	SFLK	ACTION	5	DIROPS	1
771	7110000002	DIPCT	CAP	CA.DRCT,OB.CRLF	DIROPS	1
160	7160000002	NAME	BLKD	L_NAME	DIROPS	1
1600	7110000002	DIPCT	CAP	CA.DRCT,OB.INSL	DIROPS	1
1616	7160000002	NAME	BLKD	L_NAME	DIROPS	1
1624	7110000002	KEY2	CAP	CA.ACKY,0	DIROPS	1
1624			ENDACT		DIROPS	1
				* REMOVE AN OWNERSHIP ENTRY	DIROPS	1
1634	7160000002	RMOE	ACTION	3	DIROPS	1
1667	7110000002	DIPCT	CAP	CA.DRCT <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1
1677	7160000002	NAME	BLKD	L_NAME	DIROPS	1
1165	7110000002	KEY	CAP	CA.ACKY	DIROPS	1
1115			ENDACT		DIROPS	1
					DIROPS	1

* REMOVE A LINK ENTRY

1115	7160-0000-2	RMLK	ACTION	2	DIROPS	1
1150	7110-0000-2	DIRECT	CAP	CA.DRCT,DB.DLE	DIROPS	1
1140	7160-0000-2	NAME	BLKD	L,NAME	DIROPS	1
1168			ENDACT		DIROPS	1

* CHANGE THE NAME OF AN ENTRY

1166	7160-0000-2	CHNM	ACTION	3	DIROPS	1
1221	7110-0000-2	DIRECT	CAP	CA.DRCT,DB.CHNM	DIROPS	1
1231	7160-0000-2	NAME	BLKD	L,NAME	DIROPS	1
1237	7160-0000-2	NEWNM	BLKD	L,NAME	DIROPS	1
1245			ENDACT		DIROPS	1

* ADD AN ACCESS-PAIR TO AN ACESST-LTST

1246	7160-0000-2	ADPR	ACTION	5	DIROPS	1
1304	7110-0000-2	DIRECT	CAP	CA.DRCT,DB.AAP	DIROPS	1
1314	7160-0000-2	NAME	BLKD	L,NAME	DIROPS	1
1316	7110-0000-2	KEY	CAP	CA.ACKY,0	DIROPS	1
1326	7160-0000-2	NNKYN	DAT		DIROPS	1
1333	7160-0000-2	OPTS	DAT	.. KEY NUMBER FOR NEW PAIR	DIROPS	1
1340			ENDACT	.. OPTIONS	DIROPS	1

* DELETE AN ACCESS-PAIR FROM AN ACCESS-LIST

1344	7160-0000-2	DLPR	ACTION	3	DIROPS	1
1373	7110-0000-2	DIRECT	CAP	CA.DRCT,DB.DAP	DIROPS	1
1403	7160-0000-2	NAME	BLKD	L,NAME	DIROPS	1
1411	7160-0000-2	KEYNO	DAT	.. KEY NUMBER OF PAIR TO DELETE	DIROPS	1
1416			ENDACT		DIROPS	1

* SET SUCCESSOR LINK

1416	7160-0000-2	SSUL	ACTION	2	DIROPS	1
1451	7110-0000-2	DIRECT	CAP	CA.DRCT,DB.SSUL	DIROPS	1
1461	7110-0000-2	SUCDO	CAP	CA.DRCT	DIROPS	1
1471			ENDACT		DIROPS	1

* CLEAR SUCCESSOR LINK

1471	7160-0000-2	CSUL	ACTION	1	DIROPS	1
------	-------------	------	--------	---	--------	---

1524	7160000002	DIRECT	CAP	CA.DRCT,DB.CSUL	DIROPS	1
1534			ENDACT		DIROPS	1
		* DISPLAY THE N-TH ENTRY OF A DIRECTORY				
1534	7160000002	DSRN	ACTION	2	DIROPS	1
1567	7160000002	DIRECT	CAP	CA.DRCT	DIROPS	1
1577	7160000002	NUMB	DAT		DIROPS	1
1604			ENDACT		DIROPS	1
		* GET N-TH OWNED LLD-OBJECT AS A DISK FILE [FOR DUMP/RECOVER]				
1604	7160000002	GNOD	ACTION	2	DIROPS	1
1637	7160000002	DIRECT	CAP	CA.DSKF	DIROPS	1
1647	7160000002	NUMB	DAT		DIROPS	1
1654			ENDACT		DIROPS	1
		* GET N-TH OWNED DIRECTORY [FOR DUMP/RECOVER]				
1654	7160000002	GNOD	ACTION	2	DIROPS	1
1707	7160000002	DIRECT	CAP	CA.DSKF	DIROPS	1
1717	7160000002	NUMB	DAT		DIROPS	1
1724			ENDACT		DIROPS	1
		* GET N-TH LLD OBJECT SPECIFIER [FOR LOAD1]				
1724	7160000002	GNOS	ACTION	2	DIROPS	1
1757	7160000002	DIRECT	CAP	CA.DSKF	DIROPS	1
1767	7160000002	NUMB	DAT		DIROPS	1
1774			ENDACT		DIROPS	1
		* REPLACE N-TH LLD OBJECT SPECIFIER [FOR LOAD1]				
1774	7160000002	GNOS	ACTION	3	DIROPS	1
1807	7160000002	DIRECT	CAP	CA.DSKF	DIROPS	1
1807	7160000002	NUMB	DAT		DIROPS	1
1844	7160000002	OBSPC	DAT		DIROPS	1
1851			ENDACT		DIROPS	1
		* DISPLAY DIRECTORY ACCOUNTING BLOCK NUMBER				
					DIROPS	1
					DIROPS	1
					DIROPS	1
					DIROPS	1

ATM 1 - STATIC DIRECTORY AND NAME TAG TPROC INITIALIZER
DIRECTORY FORMATTION DESCRIPTIONS

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2161	7161.DP01.P	DARN	ACTION	1	DIROPS	1
2164	7116.DP01.X	DIRCT	CAP	CA.DSKF	DIROPS	1
2114			ENDACT		DIROPS	1
2114			OPGROUP	S+:	DIROPS	1
				* CREATE A STATIC NAME TAG	DIROPS	1
2114	7154.DP01.P	CRSN	ACTION	0	DIROPS	1
2147			ENDACT		DIROPS	1
				* DESTROY A STATIC NAME TAG	DIROPS	1
2147	7155.DP01.P	DSSN	ACTION	1	DIROPS	1
2262	7117.DP01.X	STNT	CAP	CA.SINT,OB.DSTRY	DIROPS	1
2212			ENDACT		DIROPS	1
				* OPEN A STATIC NAME TAG WITH AN ACCOMPANYING OBJECT	DIROPS	1
2212	7157.DP01.P	OSN1	ACTION	2	DIROPS	1
2245	7118.DP01.X	STNT	CAP	CA.SINT,OR.OP1 <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1
2255	7119.DP01.X	OSU	ANYC		DIROPS	1
2263			ENDACT		DIROPS	1
				* OPEN A STATIC NAME TAG WITHOUT AN ACCOMPANYING OBJECT	DIROPS	1
2263	7163.DP01.P	OSN2	ACTION	1	DIROPS	1
2316	7114.DP01.X	STNT	CAP	CA.SINT,OB.OP2 <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1
2326			ENDACT		DIROPS	1
2326			OPGROUP	DH+:	DIROPS	1
				* CREATE A DYNAMIC NAME TAG	DIROPS	1
2326	7165.DP01.P	CRDN	ACTION	0	DIROPS	1
2361			ENDACT		DIROPS	1
				* OPEN A DYNAMIC NAME TAG WITH AN ACCOMPANYING OBJECT	DIROPS	1
					DIROPS	1

DIR : PATH DIRECTORY AND NAME TAG TPROC INITIALIZER
"DIRECTORY OPERATION DESCRIPTIONS"

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2361	7160010002	ODNL	ACTION	2	DIROPS	1
2414	7110000003	DYNT	CAP	Ca.DYNT ,OB.OPI <<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1
2424	5110003715	OBJ	ANYC		DIROPS	1
2432			ENDACT		DIROPS	1
				* OPEN A DYNAMIC NAME TAG WITHOUT AN ACCOMPANYING OBJECT	DIROPS	1
2472	7160010002	ODN2	ACTION	1	DIROPS	1
2465	7110000003	DYNT	CAP	Ca.DYNT ,OB.OP2 <<<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1
2475			ENDACT		DIROPS	1
				* CLOSE A DYNAMIC NAME TAG	DIROPS	1
2476	7160010002	CLDN	ACTION	1	DIROPS	1
2531	7110000003	DYNT	CAP	Ca.DYNT ,OB.CLOSE <<<<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1
2543			ENDACT		DIROPS	1
				* CLOSE ALL (UNWEDGED) LOCALLY OPENED DYNAMIC NAME TAGS	DIROPS	1
2544	7160010002	CLAO	ACTION	0	DIROPS	1
2573			ENDACT		DIROPS	1
2573		OPGROUP	A#:		DIROPS	1
				* CREATE AN ACCESS KEY	DIROPS	1
2573	7160010002	CRAK	ACTION	0	DIROPS	1
2526			ENDACT		DIROPS	1
2526		OPGROUP	D#:		DIROPS	1
				* RETURN AND RESET DIRECTORY SYSTEM ELAPSED TIME CLOCKS	DIROPS	1
2525	7160010002	CLKS	ACTION	0	DIROPS	1
2561			ENDACT		DIROPS	1
				* CREATE A DISK FILE OWNERSHIP ENTRY, SCRATCH	DIROPS	1

INIT : FAT DIRECTORY AND NAME TAG IPROC INITIALIZER
DIRECTORY OPERATION DESCRIPTIONS

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7661	7160-00002	SCDF	ACTION	5	DIROPS	1
7714	7160-00006 *	DIRECT	CAP	Cr.DRCT,OB.CRFTL	DIROPS	1
7724	7160-00008	NAME	BLKD	L,NAME	DIROPS	1
7732	7160-00012	SHR	BLKD	L,SHR	DIROPS	1
7742	7160-00012	KN1	DAT		DIROPS	1
7743	7160-00012	OPT1	DAT		DIROPS	1
7752			ENDACT		DIROPS	1
				* CREATE A DIRECTORY OWNERSHIP ENTRY, SCRATCH	DIROPS	1
7762	7160-00012	SCDR	ACTION	6	DIROPS	1
7768	7160-00018	DIRECT	CAP	Cr.DRCT,OB.CRUR	DIROPS	1
7715	7160-00012	NAME	BLKD	L,NAME	DIROPS	1
7723	7160-00012	SIZE	DAT		DIROPS	1
7734	7160-00012	ACBLK	DAT		DIROPS	1
7735	7160-00012	KN2	DAT		DIROPS	1
7742	7160-00012	OPT2	DAT		DIROPS	1
7747			ENDACT		DIROPS	1
				* DESTROY LLD-IMPLEMENTED OBJECT (FILE, DIRECT., SUBP. DESC.)	DIROPS	1
7747	7160-00012	DSTR	ACTION	1	DIROPS	1
7752	711-02702 *	FORJ	ANYC	01.DSTRY	DIROPS	1
7753			ENDACT		DIROPS	1
7710		OPGROUP	SPI:		DIROPS	1
				* MAKE A SUBPROCESS DESCRIPTOR CAPABILITY FROM A DIRECTORY CAPABILITY	DIROPS	1
7710	7160-00012	MAKE	ACTION	1	DIROPS	1
7743	7160-00012	DIRECT	CAP	Cr.DRCT	DIROPS	1
7753			ENDACT		DIROPS	1
				* CONVERT SUBPROCESS DESCRIPTOR CAPABILITY INTO DIRECTORY CAPABILITY	DIROPS	1
7753	7160-00012	CONV	ACTION	1	DIROPS	1
7765	7160-00012	SPRD	CAP	Ca.SBPD	DIROPS	1
7716			ENDACT		DIROPS	1
7715		OPGROUP	001:		DIROPS	1
					DIROPS	1

				DIROPS	1
		* CLOSE ALL (WEDGED OR NOT) LOCALLY OPEN DYNAMIC NAME TAGS		DIROPS	1
2216	7160000002	CLAS	ACTION 0	DIROPS	1
2261			ENDACT	DIROPS	1
2261			OPGROUP DA:	DIROPS	1
				DIROPS	1
		* MOVE DISK SPACE BETWEEN DISK ACCOUNTING BLOCKS		DIROPS	1
2261	7160000002	MVSP	ACTION 3	DIROPS	1
2324	7110000002	SDIR	CAP CA.DRCT,OB.GIVE	DIROPS	1
2314	7110000002	DDIR	CAP CA.DRCT,OB.GET	DIROPS	1
2324	7160000002	SPACE	DAT	DIROPS	1
2321			ENDACT	DIROPS	1
				DIROPS	1
		* DISPLAY A DISK ACCOUNTING BLOCK		DIROPS	1
2261	7160000002	DSP	ACTION 1	DIROPS	1
2364	7110000002	DIRECT	CAP CA.DRCT	DIROPS	1
2374			ENDACT	DIROPS	1
				DIROPS	1
		* CHANGE THE CLOS-SHOPRESS (WEDGE) FLAG OF A LOCALLY OPEN DNT		DIROPS	1
2374		OPGROUP DA:		DIROPS	1
2374	7160000002	CFLG	ACTION 2	DIROPS	1
2427	7110000002	DYNT	CAP CA.DYNT ,OR.FLG <<<<<<<<<<<<<<<<<<<<<<<<<<<<<	DIROPS	1
2427	7160000002	FLAG	DAT	DIROPS	1
2444			ENDACT	DIROPS	1
2444		OPGROUP DA:		DIROPS	1
				DIROPS	1
		* INCREMENT DISK CHARGE METER		DIROPS	1
2444	7160000002	INCM	ACTION 2	DIROPS	1
2477	7110000002	DIRECT	CAP CA.DRCT,OB.INMTR	DIROPS	1
2517	7160000002	INCR	DAT	DIROPS	1
2514			ENDACT	DIROPS	1
				DIROPS	1
		* SET DISK ACCOUNTING BLOCK SETTABLE TAG		DIROPS	1
				DIROPS	1

1514	715000000002	STAS	ACTION	2	DIROPS	1
1547	71100000000A	DIPCT	CAP	CA.DRCT,OB.SETAG	DIROPS	1
1557	71600000000P	TAG	DAT		DIROPS	1
1564			ENDACT		DIROPS	1

* NOW RETURN VARIOUS OBJECTS TO THE SYSTEM BUILDER, TO BE PLACED IN THE GID

		SYSCALL	RETORUS			
		RS				
1564	1130003367 +					
1565	009000000000					
1566	000000000000000000 X	LEVELDNT	VFD	67/L.DNT	.. LEVEL NUMBER(S) OF EF.DNT	
1567	400000000000000000 X	RETORUS	IP0	En:RHAR	.. RETURN GID OBJECTS	
1567	00000000000000000000 +		D:	NAMES,L,ROBJ+1	.. ENTRY NAMES, END MARKER	
15671	00000000000000000005		D:	C,ROBJ,L,ROBJ	.. OBJECTS	
15672	400000000000000000 X	CCL.DRCT	IP0	En:CCL	.. CREATE CL.DRCT	
15673	10000000000000000000		C:	AP,MSTR	.. FUNDING ALLOCATION BLOCK	
15674	00000000000000000007		D:	CL.DRCT		
15675	00000000000000000000 X		D:	L.DRCL	.. LENGTH	
15676	4000000000 X	CEF.TYPS	IP0	En:CHIL		
15677	00000000000000000000000000		C:	AP,MSTR		
15678	000000000000000000000010		D:	EF.TYPX		
15679	000000000000000000000001		D:	1		
15682	000000000000000000003603 +		D:	EFTYPSHP		
15683	00000000000000000000 X	EFTYPSHP	VFD	67/L.DTYP		
15684	4000000000 X	CRTYPS	IP0	En:CBLK		
15685	0000000000000000000010		C:	EF.TYPX		
15686	000000000000000000000000		D:	0		
15687	00000000000000000000120	TYPOPTS	VFD	67/0B.RUFIL+OB.PLMAP		
15610	4000000000 X	DSPCA.DF	IP0	Ec:DSCP	.. DISPLAY #CA.DSKFILE*	
15611	000000000000000000000001		C:	CA.DFIL		
15612	4000000000 X	OUTCA.DF	IP0	Ec:CUUT	.. MOVE OUT CA.DSKFILE	
15613	000000000000000000000007		C:	CL.DRCT		
15614	000000000000000000002003		D:	0	.. 0 = CA.DSKF #####	
15615	000000000000000000000001		D:	CA.DFIL		
15616	4000000000 X	CCA.DDRJ	IP0	Ec:MCRA	.. MAKE A DISR TYPE AUTHORIZATION	
15617	000000000000000000000001		D:	CA.TEMP		
15620	4000000000 X	DSPCA.D0	IP0	Ec:DSCP	.. DISPLAY CAPABILITY AUTHORIZATION	
15621	000000000000000000000001		C:	CA.TEMP		
15622	4000000000 X	CRNULLAK	IP0	Ec:CUAP	.. CREATE THE IMPLICIT-ACCESS KEY	
15623	000000000000000000000001		D:	C TEMP	.. RETURN LOA	
15624	4000000000 X		C:	CL.DRCT,CA.ACKY	.. ACCESS-KEY CAPABILITY AUTHORIZATION	

1625	4000000000000000	D:	0	.. =ZERO, THE LOCK OF THE IMPLICIT KEY																																																																																					
1626	4000000000000000	MOVNULL	IPO	Ec:CUUT																																																																																					
1627	4000000000000000		C:	Cl:CMMD																																																																																					
1628	4000000000000000		D:	I																																																																																					
1629	4000000000000000		D:	C:TEMP																																																																																					
1630	4000000000000000			.. MOVE THE NULL KEY OUT INTO CL.CMMD																																																																																					
1631	4000000000000000			.. DESTINATION C-LIST																																																																																					
1632	4000000000000000	CRECDNT	IPO	.. INDEX IN DESTINATION C-LIST																																																																																					
1633	4000000000000000		C:	Ec:CEVC																																																																																					
1634	4000000000000000		D:	Ar:MSTR																																																																																					
1635	4000000000000000		D:	C:TEMP																																																																																					
1636	4000000000000000		D:	2	1637	4000000000000000	MOVECDNT	IPO	.. CREATE DNT LOCKING CHANNEL	1638	4000000000000000		C:	Cl:DRCT	1639	4000000000000000		D:	Ec:DNTN	1640	4000000000000000		D:	C:TEMP	1641	4000000000000000			.. MOVE THE DRCTN OUT INTO CL.DRCT	1642	4000000000000000	CRECAKN	IPO	Ec:CEVC	1643	4000000000000000		C:	Ar:MSTR	1644	4000000000000000		D:	C:TEMP	1645	4000000000000000		D:	2	1646	4000000000000000	MOVECAKN	IPO	.. MOVE THE AKN OUT INTO CL.DRCT	1647	4000000000000000		C:	Cl:DRCT	1648	4000000000000000		D:	Ec:AKN	1649	4000000000000000		D:	C:TEMP	1650	4000000000000000			.. DESTINATION C-LIST	1651	4000000000000000			.. INDEX IN DESTINATION C-LIST	1652	4000000000000000	CCLSOPDE	IPO	.. CREATE *CC,DRCTSYS*	1653	4000000000000000		D:	Cl:DRCT
1637	4000000000000000	MOVECDNT	IPO	.. CREATE DNT LOCKING CHANNEL																																																																																					
1638	4000000000000000		C:	Cl:DRCT																																																																																					
1639	4000000000000000		D:	Ec:DNTN																																																																																					
1640	4000000000000000		D:	C:TEMP																																																																																					
1641	4000000000000000			.. MOVE THE DRCTN OUT INTO CL.DRCT																																																																																					
1642	4000000000000000	CRECAKN	IPO	Ec:CEVC																																																																																					
1643	4000000000000000		C:	Ar:MSTR																																																																																					
1644	4000000000000000		D:	C:TEMP																																																																																					
1645	4000000000000000		D:	2	1646	4000000000000000	MOVECAKN	IPO	.. MOVE THE AKN OUT INTO CL.DRCT	1647	4000000000000000		C:	Cl:DRCT	1648	4000000000000000		D:	Ec:AKN	1649	4000000000000000		D:	C:TEMP	1650	4000000000000000			.. DESTINATION C-LIST	1651	4000000000000000			.. INDEX IN DESTINATION C-LIST	1652	4000000000000000	CCLSOPDE	IPO	.. CREATE *CC,DRCTSYS*	1653	4000000000000000		D:	Cl:DRCT																																													
1646	4000000000000000	MOVECAKN	IPO	.. MOVE THE AKN OUT INTO CL.DRCT																																																																																					
1647	4000000000000000		C:	Cl:DRCT																																																																																					
1648	4000000000000000		D:	Ec:AKN																																																																																					
1649	4000000000000000		D:	C:TEMP																																																																																					
1650	4000000000000000			.. DESTINATION C-LIST																																																																																					
1651	4000000000000000			.. INDEX IN DESTINATION C-LIST																																																																																					
1652	4000000000000000	CCLSOPDE	IPO	.. CREATE *CC,DRCTSYS*																																																																																					
1653	4000000000000000		D:	Cl:DRCT																																																																																					

722

L.FL END

37616

STORAGE USED
6600 ASSEMBLY13658 STATEMENTS
45.482 SECONDS280 SYMBOLS
309% REFERENCES

000047 INVENTED SYMBOLS

1. IN : BATCH DIRECTORY AND NAME TAG IPROC INITIALIZER
2. DD DIRECTORY.

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3. TYPE ERROR DUPLICATE MACRO DEFINITION. NEW ONE OVERRIDES.
OCCURRED ON PAGES 4, 9

4. TYPE ERROR MISSING OR EXTRA ADDRESS SUBFIELD.
OCCURRED ON PAGES 2

FILE : PART DIRECTORY AND NAME TAG IPROC INITIALIZES
SYNTHETIC REFERENCE TABLE.

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~B_WSTO	0		3/16 D	14/20	15/46	17/09	18/19	19/30	20/47	22/19
			8/10	14/37	16/04	17/18	18/27	19/39	21/05	22/24
			8/16	14/47	16/13	17/27	18/37	19/49	21/15	23/09
			8/31	15/07	16/23	17/36	18/48	20/03	21/25	23/19
			10/09	15/17	16/35	17/45	19/02	20/15	21/34	
			14/12	15/24	16/45	18/02	19/12	20/28	21/46	
			14/19	15/34	17/01	18/12	19/21	20/39	22/02	
~K_CDAK	0	EXTERNAL*	19/39							
~T_ALBK	6		12/50 D							
~T_CLIST	0		12/47 D							
~T_DFL	0		12/45 D							
~T_EVCH	5		12/49 D							
~T_FTLR	4		12/51 D							
~T_HDPR	4		12/48 D							
~T_PPDC	1		12/46 D							
NAME	11		3/10 D	3/17	3/20	3/22	3/25	3/28	3/30	
			3/10	3/17 D	3/20 D	3/22 D	3/25 D	3/28 D	3/30 D	
			3/16 D	3/17	3/20	3/22	3/25	3/28	3/30	
			3/16	3/17	3/21	3/24	3/27	3/29	3/32	
			3/16 D	3/17 D	3/21 D	3/24 D	3/27 D	3/29 D	3/35	
			3/16	3/17	3/21	3/24	3/27	3/29		
CA_ACKY	0	EXTERNAL*	14/40	15/37	15/50	16/26	22/53			
CA_DFL	1		3/20 D	22/37	22/43					
CA_DRCT	0	EXTERNAL*	14/20	15/14	15/47	16/36	17/10	21/16	22/03	
			14/29	15/27	16/05	16/46	20/04	21/17		
			14/28	15/37	16/14	16/47	20/16	21/26		
			15/04	15/37	16/24	17/02	20/40	21/47		
CA_DKEF	0	EXTERNAL*	17/19	17/20	17/37	17/46	18/03			
CA_DYIT	0	EXTERNAL*	19/03	19/17	19/22	21/35				
CA_SPPD	3	EXTERNAL*	20/48							
CA_STAT	0	EXTERNAL*	18/26	18/28	18/38					
CA_TEMP	1		3/16 D	7/37	22/46	22/49				
~BTYPES	3004	PROGRAM*	7/10	22/37 L						
CC_DORU	3016	PROGRAM*	7/27	22/47 L						
CC_SCOPE	3052	PROGRAM*	8/36	23/27 L						
CC_DRCT	3072	PROGRAM*	7/04	22/17 L						
CC_DCTR	0	EXTERNAL*	6/38							
CC_DRCT	5		3/27 D	14/37	15/46	17/01	18/02	19/02	20/03	21/15
			8/38	14/47	16/04	17/09	18/12	19/12	20/15	21/25
			10/09	15/07	16/13	17/18	18/19	19/21	20/28	21/34
			14/12	15/17	16/23	17/27	18/27	19/30	20/39	21/46
			14/19	15/24	16/35	17/36	18/37	19/39	20/47	22/02
			14/28	15/34	16/45	17/45	18/48	19/49	21/05	23/29
~BTYPES	3076	PROGRAM*	7/09	22/27 L						
~F_DTR	0	EXTERNAL*	8/42							
~F_DTRX	0		3/24 D	8/47						
~L_DCDT	0		3/22 D	23/07						
~L_DDT	0	EXTERNAL*	8/32							
~L_DRCT	7		3/29 D	7/47	8/12	8/24	8/38	22/20	23/01	23/24
			7/31	8/17	8/22	8/32	8/42	22/41	23/14	

TITLE : DATA DIRECTORY AND NAME TAG TPROG INITIALIZER
BY DOLTC REFERENCE TABLE.

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CL.DPS	2		3/21 0	14/46	15/46	16/45	17/47	19/05	20/15	21/27
			7/30	14/47	15/46	16/45	17/47	19/06	20/17	21/33
			7/37	14/47	15/46	16/47	17/48	19/11	20/17	21/34
			7/39	14/47	15/46	16/48	18/01	19/12	20/18	21/34
			7/40	14/48	15/49	16/53	18/02	19/12	20/19	21/34
			8/09	14/49	15/49	17/01	18/02	19/12	20/20	21/34
			8/10	14/49	15/51	17/01	18/02	19/12	20/21	21/37
			8/11	15/00	16/03	17/01	18/02	19/15	20/27	21/37
			8/15	15/00	16/04	17/01	18/04	19/20	20/28	21/45
			8/21	15/00	16/04	17/03	18/11	19/21	20/28	21/46
			8/23	15/00	16/04	17/08	18/12	19/21	20/28	21/46
			8/30	15/00	16/04	17/09	18/12	19/21	20/28	21/46
			8/31	15/00	16/06	17/09	18/12	19/21	20/30	21/46
			8/37	15/00	16/06	17/09	18/12	19/24	20/38	21/48
			8/41	15/00	16/12	17/09	18/18	19/29	20/39	21/48
			10/08	15/10	16/13	17/11	18/19	19/30	20/39	22/01
			10/09	15/10	16/13	17/11	18/19	19/30	20/39	22/02
			10/10	15/10	16/13	17/17	18/19	19/30	20/39	22/02
			14/11	15/10	16/13	17/18	18/19	19/30	20/41	22/02
			14/12	15/10	16/15	17/18	18/21	19/38	20/46	22/02
			14/12	15/10	16/15	17/18	18/26	19/39	20/47	22/04
			14/12	15/10	16/16	17/18	18/27	19/39	20/47	22/04
			14/12	15/10	16/22	17/20	18/27	19/39	20/47	22/15
			14/18	15/10	16/23	17/20	18/27	19/39	20/47	22/19
			14/19	15/20	16/23	17/26	18/27	19/48	20/49	22/24
			14/19	15/20	16/23	17/27	18/30	19/49	21/04	22/32
			14/19	15/20	16/23	17/27	18/31	19/49	21/05	22/38
			14/19	15/20	16/25	17/27	18/36	19/49	21/05	22/41
			14/22	15/20	16/25	17/27	18/37	19/49	21/05	22/46
			14/27	15/20	16/27	17/29	18/37	20/02	21/05	22/49
			14/28	15/20	16/27	17/29	18/37	20/03	21/14	22/52
			14/28	15/20	16/28	17/35	18/37	20/03	21/15	23/04
			14/28	15/30	16/34	17/36	18/40	20/03	21/15	23/09
			14/28	15/30	16/35	17/36	18/47	20/03	21/15	23/14
			14/31	15/30	16/35	17/36	18/48	20/05	21/15	23/19
			14/36	15/30	16/35	17/36	18/48	20/05	21/17	23/24
			14/37	15/30	16/35	17/38	18/48	20/06	21/18	23/29
			14/37	15/30	16/37	17/38	18/48	20/07	21/18	
			14/37	15/30	16/37	17/44	19/01	20/08	21/24	
			14/37	15/30	16/38	17/45	19/02	20/14	21/25	
			14/39	15/30	16/44	17/45	19/02	20/15	21/25	
			14/39	15/40	16/45	17/45	19/02	20/15	21/25	
			14/41	15/40	16/45	17/45	19/02	20/15	21/25	

CRCACK	2+40	PROGRAM*	8/03	23/10	L					
CRCDT	2+30	PROGRAM*	7/81	23/00	L					
CR.DLL	2+22	PROGRAM*	7/45	22/51	L					
CR.DRJ	5		3/25 0	3/30		22/16				
CR.TEMP	1		3/18 0	8/1+		8/22	8/32	23/06	23/16	23/26
			8/10	8/1+		8/31	22/52	23/10	23/20	
DA>DSP	0	EXTERNAL*	21/25							
DA:DINCH	0	EXTERNAL*	21/46							
DA:MVSP	0	EXTERNAL*	21/15							
DA:STAG	0	EXTERNAL*	22/12							

PF*PDT		EXTERNAL*	7/38				
PR*CELB		EXTERNAL*	21/34				
PR*CLAD		EXTERNAL*	19/30				
PR*CLAR		EXTERNAL*	21/65				
PR*COLD		EXTERNAL*	19/21				
PR*CDR		EXTERNAL*	18/48				
PR*DDNT		EXTERNAL*	19/02				
PR*DDNR		EXTERNAL*	19/12				
PR*ADRQ		EXTERNAL*	16/23				
PR*ASCL		EXTERNAL*	14/47				
PR*CHNM		EXTERNAL*	16/13				
PR*COLB		EXTERNAL*	14/28				
PR*CLKS		EXTERNAL*	19/49				
PR*COPR		EXTERNAL*	15/13				
PR*COFT		EXTERNAL*	15/63				
PR*CSUL		EXTERNAL*	17/01				
PR*DAB		EXTERNAL*	18/02				
PR*DRUG		EXTERNAL*	14/12				
PR*DLPR		EXTERNAL*	16/35				
PR*DSPN		EXTERNAL*	17/09				
PR*ESTP		EXTERNAL*	20/38				
PR*EMOD		EXTERNAL*	17/27				
PR*IGNOD		EXTERNAL*	17/18				
PR*GNOS		EXTERNAL*	17/36				
PR*HPLK		EXTERNAL*	15/24				
PR*IDUR		EXTERNAL*	14/19				
PR*IMLK		EXTERNAL*	16/04				
PR*IMDE		EXTERNAL*	15/46				
PR*IPUDS		EXTERNAL*	17/45				
PR*ISCPF		EXTERNAL*	20/63				
PR*ISCPD		EXTERNAL*	20/15				
PR*ISELK		EXTERNAL*	15/34				
PR*SSUL		EXTERNAL*	16/45				
PR*IACC		EXTERNAL*	14/37				
PS*CA*DF	21/2	PROGRAM*	7/17	22/3*	L		
PS*CA*DP	21/20	PROGRAM*	7/28	22/4*	L		
PC*LAJ		EXTERNAL*	23/25				
PC*DMT		EXTERNAL*	8/11	8/15			
PC*DMTH		EXTERNAL*	23/15				
PC*ACHP		EXTERNAL*	15/28	18/3*	19/06	20/30	
PC*BDAT		EXTERNAL*	14/40	15/07	15/37	16/07	16/26
			14/80	15/14	15/39	15/16	16/38
			15/06	15/2*	15/50	15/17	20/06
							20/07
							20/18
PC*CRLK		EXTERNAL*	8/24	22/3*			
PC*CCAP		EXTERNAL*	22/51				
PC*CCL		EXTERNAL*	8/31	22/1*			
PC*CCLS		EXTERNAL*	23/26				
PC*CEVC		EXTERNAL*	8/10	23/0*	23/18		
PC*CFIL		EXTERNAL*	8/16	22/2*			

INIT : DATA DIRECTORY AND NAME TAG IPROC INITIALIZER
BY POLIC REFERENCE TABLE.

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FC-COPR	EXTERNAL*	15/09	15/03	16/13	17/18	16/19	19/21	20/28	21/34
		14/12	15/12	16/23	17/27	18/27	19/30	20/39	21/46
		14/19	15/24	16/35	17/36	18/37	19/39	20/47	22/02
		14/28	15/34	16/45	17/45	18/48	19/49	21/05	
		14/37	15/44	17/01	18/02	19/02	20/03	21/15	
		14/47	16/04	17/09	18/12	19/12	20/15	21/25	
FC-COUT	EXTERNAL*	7/31	14/12	15/24	16/45	18/02	19/12	20/28	21/46
		7/41	14/12	15/34	17/01	18/12	19/21	20/39	22/02
		8/11	14/22	15/46	17/09	18/19	19/30	20/47	22/40
		8/22	14/37	16/04	17/18	18/27	19/39	21/05	23/03
		8/32	14/47	16/13	17/27	18/37	19/49	21/15	23/13
		8/38	15/05	16/23	17/36	18/48	20/03	21/25	23/23
		8/42	15/12	16/35	17/45	19/02	20/15	21/34	
FC-DSCP	EXTERNAL*	22/27	22/42						
FC-FDAT	EXTERNAL*	15/11	15/03	16/13	17/18	18/19	19/21	20/28	21/34
		14/12	15/12	16/23	17/27	18/27	19/30	20/39	21/46
		14/19	15/24	16/35	17/36	18/37	19/39	20/47	22/02
		14/28	15/34	16/45	17/45	18/48	19/49	21/05	
		14/37	15/44	17/01	18/02	19/02	20/03	21/15	
		14/47	16/04	17/09	18/12	19/12	20/15	21/25	
FC-HCAP	EXTERNAL*	7/40							
FC-HCC	EXTERNAL*	22/45							
FC-PDAR	EXTERNAL*	22/14							
FC-SEV	EXTERNAL*	8/12							
FC-HCAP	EXTERNAL*	14/22	15/12	15/51	16/47	17/38	19/05	20/49	22/04
		14/31	15/24	16/06	16/48	17/47	19/15	21/17	
		14/39	15/34	16/15	17/03	18/04	19/24	21/18	
		14/41	15/32	16/25	17/11	18/21	20/05	21/27	
		14/49	15/44	16/27	17/20	18/30	20/17	21/37	
		15/05	15/40	16/37	17/29	18/40	20/41	21/48	
FC-FDAT	EXTERNAL*	15/10	15/12	16/35	17/30	18/27	20/03	20/39	21/49
		14/12	15/24	16/39	17/36	18/37	20/08	20/47	22/02
		14/19	15/32	16/45	17/39	18/48	20/09	21/05	22/05
		14/28	15/44	17/01	17/45	19/02	20/15	21/15	
		14/37	16/34	17/09	17/48	19/12	20/19	21/19	
		14/47	16/12	17/12	17/49	19/21	20/20	21/25	
		15/03	16/22	17/18	18/02	19/30	20/21	21/34	
		15/13	16/22	17/21	18/12	19/39	20/22	21/38	
		15/17	16/20	17/27	18/19	19/49	20/28	21/46	
FF-TYPSH	PROGRAM*	22/27	22/22 L						
FF-DOUT	EXTERNAL*	8/22	8/22						
FF-TYPS	EXTERNAL*	7/41							
FF-TYPX	L	3/30 D	7/30	7/40	7/40	7/41	22/25	22/32	
ENTRY	L	3/10	6/10 L						
GT_DGE	R	13/04 D							
GT_ND43	R	13/45 D							
GT_PTRS	I	13/03 D							

INIT : SYSTEM DIRECTORY AND NAME TAG IPROC INITIALIZER
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TPUTST	24	4/03 L	14/37 S	15/34	16/29 S	17/29 S	18/37 S	19/49 S	21/05 S
7/31	S	14/37 S	15/34 S	16/29	17/29 S	18/37 S	19/49 S	21/05 S	
7/31	S	14/37	15/34 S	16/35 S	17/29	18/37 S	19/49 S	21/05 S	
7/31	S	14/37 S	15/34 S	16/35 S	17/30 S	18/37	19/49 S	21/05 S	
7/31	S	14/37 S	15/34	16/35 S	17/30 S	18/37 S	19/49	21/05 S	
7/31		14/37 S	15/34 S	16/35 S	17/30	18/37 S	19/49 S	21/05 S	
7/38	S	14/37	15/34 S	16/35 S	17/36 S	18/37 S	19/49 S	21/05	
7/38	S	14/37 S	15/34	16/35 S	17/36 S	18/37 S	19/49 S	21/05 S	
7/38	S	14/37 S	15/36 S	16/35	17/36 S	18/37	19/49	21/05 S	
7/38	S	14/37 S	15/36 S	16/35 S	17/36 S	18/37 S	19/49 S	21/05 S	
7/38	S	14/37 S	15/36 S	16/35 S	17/36 S	18/37 S	19/49 S	21/05 S	
7/38	S	14/37 S	15/36 S	16/35 S	17/36 S	18/37 S	19/49 S	21/05 S	
7/38	S	14/37 S	15/36 S	16/35 S	17/36 S	18/37 S	19/49 S	21/05 S	
7/40	S	14/37 S	15/36	16/35 S	17/36	18/37	20/03 S	21/05 S	
7/40	S	14/37 S	15/37 S	16/35	17/36 S	18/37 S	20/03 S	21/05 S	
7/40	S	14/37	15/37 S	16/35 S	17/36 S	18/37 S	20/03 S	21/05 S	
7/40	S	14/37 S	15/37 S	16/35 S	17/36 S	18/37	20/03 S	21/05	
7/40	S	14/37 S	15/37	16/35 S	17/36 S	18/37	20/03 S	21/05 S	
7/41	S	14/41 S	15/37 S	16/35 S	17/36 S	18/40 S	20/03 S	21/05 S	
7/41	S	14/41 S	15/38 S	16/35	17/36 S	18/40 S	20/03 S	21/05 S	
7/41	S	14/41 S	15/38 S	16/35 S	17/36 S	18/40 S	20/03 S	21/15 S	
7/41	S	14/41 S	15/38 S	16/35	17/36 S	18/40	20/03 S	21/15 S	
7/41	S	14/41 S	15/38 S	16/35 S	17/36 S	18/40 S	20/03 S	21/15 S	
8/10	S	14/41 S	15/39 S	16/37 S	17/36 S	18/48 S	20/03 S	21/15 S	
8/10	S	14/41 S	15/39 S	16/37 S	17/36 S	18/48 S	20/03 S	21/15 S	
8/10	S	14/41 S	15/39 S	16/37 S	17/36 S	18/48 S	20/03 S	21/15 S	
8/10	S	14/41 S	15/39 S	16/37 S	17/36 S	18/48 S	20/03 S	21/15 S	
8/10	S	14/41 S	15/39	16/37	17/38 S	18/48 S	20/03 S	21/15 S	
8/10	S	14/41 S	15/40 S	16/38 S	17/38 S	18/48 S	20/03 S	21/15 S	
8/11	S	14/41 S	15/40 S	16/38 S	17/38 S	18/48 S	20/03 S	21/15 S	
8/11	S	14/41 S	15/40 S	16/38 S	17/38 S	18/48 S	20/03 S	21/15 S	
8/11	S	14/41 S	15/40 S	16/38 S	17/38 S	18/48 S	20/03 S	21/15 S	
8/11	S	14/41 S	15/40 S	16/38	17/38	18/48 S	20/03 S	21/15 S	
8/11	S	14/41 S	15/40 S	16/38	17/38	18/48 S	20/03 S	21/15 S	
8/11	S	14/41 S	15/40	16/39 S	17/39 S	18/48 S	20/03 S	21/15 S	
8/11	S	14/41 S	15/46 S	16/39 S	17/39 S	18/48 S	20/05 S	21/15 S	
8/12	S	14/42 S	15/46 S	16/39	17/39	18/48	20/05 S	21/15 S	
8/12	S	14/42 S	15/46 S	16/45 S	17/45 S	18/48 S	20/05 S	21/15 S	
8/12	S	14/42 S	15/46 S	16/45 S	17/45 S	18/48 S	20/05 S	21/15 S	
8/12	S	14/42 S	15/46 S	16/45 S	17/45 S	18/48 S	20/05 S	21/15 S	
8/16	S	14/42 S	15/46 S	16/45 S	17/45 S	18/48 S	20/06 S	21/15 S	
8/17	S	14/42 S	15/46	16/45 S	17/45 S	18/48 S	20/06 S	21/15	
8/18	S	14/42 S	15/46 S	16/45 S	17/45 S	18/48 S	20/06 S	21/17 S	
8/19	S	14/42 S	15/46 S	16/45 S	17/45 S	18/48 S	20/06 S	21/17 S	
8/20	S	14/42 S	15/46 S	16/45 S	17/45 S	19/02 S	20/07 S	21/17 S	
8/20	S	14/42 S	15/46 S	16/45 S	17/45 S	19/02 S	20/07 S	21/17 S	
8/22	S	14/42 S	15/46	16/45 S	17/45 S	19/02 S	20/07 S	21/17	
8/22	S	14/42 S	15/46 S	16/45 S	17/45 S	19/02 S	20/07	21/18 S	
8/22	S	14/42 S	15/46 S	16/45	17/45 S	19/02 S	20/08 S	21/18 S	
8/22	S	14/42 S	15/46 S	16/45 S	17/45 S	19/02 S	20/08 S	21/18 S	
8/22	S	14/42 S	15/46	16/45 S	17/45 S	19/02 S	20/08	21/18 S	
8/24	S	14/42 S	15/46 S	16/45 S	17/45 S	19/02 S	20/09 S	21/18	
8/25	S	14/52 S	15/46 S	16/45	17/45 S	19/02 S	20/09 S	21/19 S	
8/26	S	14/52 S	15/46 S	16/45 S	17/45 S	19/02 S	20/09 S	21/19 S	
8/31	S	14/52 S	15/49 S	16/45 S	17/45 S	19/02 S	20/15 S	21/25 S	
8/31	S	15/02 S	15/49 S	16/47 S	17/47 S	19/02 S	20/15 S	21/25 S	

8/31 S	15/0* S	15/49 S	16/47 S	17/47 S	19/02 S	20/15 S	21/25 S
8/31 S	15/0* S	15/49	16/47 S	17/47 S	19/02 S	20/15 S	21/25 S
8/31	15/0* S	15/50 S	16/47 S	17/47 S	19/02 S	20/15 S	21/25 S
8/32 S	15/0* S	15/50 S	16/47	17/47	19/02 S	20/15	21/25 S
8/32 S	15/0* S	15/50 S	16/48 S	17/48 S	19/02 S	20/15 S	21/25
8/32 S	15/0* S	15/50	16/48 S	17/48 S	19/02 S	20/15 S	21/25 S
8/32 S	15/0* S	15/51 S	16/48 S	17/48	19/05 S	20/15 S	21/25 S
8/32	15/0* S	15/51 S	16/48 S	17/49 S	19/05 S	20/15 S	21/25 S
8/33 S	15/0* S	15/51 S	16/48	17/49 S	19/05 S	20/15 S	21/25 S
8/33 S	15/0* S	15/51 S	17/01 S	17/49	19/05 S	20/15 S	21/25
8/33 S	15/0* S	15/51	17/01 S	18/02 S	19/05 S	20/15 S	21/25 S
8/33 S	15/0* S	16/04 S	17/01 S	18/02 S	19/06 S	20/15 S	21/25 S
8/33	15/0* S	16/04 S	17/01 S	18/02 S	19/06 S	20/15 S	21/25 S
8/42 S	15/0* S	16/04 S	17/01 S	18/02 S	19/06 S	20/15 S	21/25
8/42 S	15/0* S	16/04 S	17/01	18/02 S	19/06 S	20/15 S	21/25 S
8/42 S	15/0* S	16/04 S	17/01	18/02 S	19/12 S	20/15 S	21/25 S
8/42 S	15/0* S	16/04 S	17/01 S	18/02 S	19/12 S	20/17 S	21/25
8/42	15/0* S	16/04	17/01 S	18/02 S	19/12 S	20/17 S	21/27 S
10/09 S	15/0* S	16/04 S	17/01 S	18/02 S	19/12 S	20/17 S	21/27 S
10/09 S	15/0* S	16/04 S	17/01 S	18/02 S	19/12 S	20/17 S	21/27 S
10/09 S	15/0* S	16/04 S	17/01	18/02 S	19/12 S	20/17 S	21/27 S
10/09 S	15/0* S	16/04 S	17/01	18/02 S	19/12 S	20/18 S	21/27
10/09 S	15/0* S	16/04	17/01 S	18/02 S	19/12 S	20/18 S	21/34 S
10/09 S	15/0* S	16/04 S	17/01 S	18/02 S	19/12 S	20/18 S	21/34 S
10/09	15/0* S	16/04 S	17/01 S	18/02 S	19/12 S	20/18 S	21/34 S
10/10 S	15/0* S	16/04 S	17/01 S	18/02 S	19/12 S	20/19 S	21/34 S
10/10 S	15/0* S	16/04	17/01 S	18/02 S	19/12 S	20/19 S	21/34 S
10/10 S	15/0* S	16/04 S	17/01	18/02 S	19/12 S	20/19 S	21/34 S
10/10 S	15/0* S	16/04 S	17/03 S	18/02	19/12 S	20/20 S	21/34
10/11 S	15/0* S	16/04 S	17/03 S	18/04 S	19/12 S	20/20 S	21/34 S
10/11 S	15/0* S	16/06 S	17/03 S	18/04 S	19/12 S	20/20 S	21/34 S
10/11 S	15/1* S	16/06 S	17/03 S	18/04 S	19/12 S	20/21 S	21/34 S
14/12 S	15/1* S	16/06 S	17/03	18/04 S	19/12 S	20/21 S	21/34 S
14/12 S	15/1* S	16/06 S	17/09 S	18/04 S	19/12 S	20/21	21/34
14/12 S	15/1* S	16/06	17/09 S	18/12 S	19/15 S	20/22 S	21/34 S
14/12 S	15/1* S	16/07 S	17/09 S	18/12 S	19/15 S	20/22 S	21/34 S
14/12 S	15/1* S	16/07 S	17/09 S	18/12 S	19/15 S	20/22 S	21/34 S
14/12 S	15/1* S	16/07 S	17/09 S	18/12 S	19/15 S	20/28 S	21/34 S
14/12 S	15/1* S	16/07	17/09 S	18/12 S	19/15 S	20/28 S	21/34 S
14/12 S	15/1* S	16/13 S	17/09	18/12 S	19/21 S	20/28 S	21/34 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/34 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/37 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/37 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/37 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/37 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/37 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/38 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/38 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/38 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/46 S
14/12 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/46 S
14/19 S	15/1* S	16/13 S	17/09	18/12 S	19/21 S	20/28 S	21/46 S
14/19 S	15/1* S	16/13 S	17/09 S	18/12 S	19/21 S	20/28 S	21/46 S

DTL : PATH DIRECTORY AND NAME TAG IPROC INITIALIZER
SYSPOLIC REFERENCE TABLE.

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REFPOINT	3666	PROGRAM*	14/37 S 8/19	15/36 S 22/1*	16/28	17/29 S	18/37 S	19/49 S	20/49 S
FOOP	17	PROGRAM*		7/27 L	7/3*				20/49
FOMT		EXTERNAL*		8/31	22/1*				
FOREL	9	EXTERNAL*	22/21						
FO TYPES	9	EXTERNAL*	7/26	7/3*	22/29				
FOFL	3783	PROGRAM*	3/10	3/1*	23/34 L				
FOFAR	5		14/21 D	14/5*	15/16	15/37	15/50	16/16	16/26
FOFORJ	4		14/40	15/0*	15/27	15/39	16/07	16/17	16/38
FOFARJ	44			3/31 E	3/3*	22/15	22/16		20/06
FOFSHP	13			3/10	3/1*	4/05 L			20/18
FOFST	11		14/04 D	15/0*	20/07				
FOFMAP	2			3/10	3/3*	D			
FOGX	2			3/09	3/1*	D			
FOFEGKJ	3646	PROGRAM*		3/10 D	3/1*	3/12	3/13	3/13	
FOFEGKT	3636	PROGRAM*		3/12 D	3/1*	3/13	3/13 D		
FOGENULL	3626	PROGRAM*		3/13 D	3/1*				
FOFO	1			3/14 D	3/1*				
FOFO	1			3/15 D	3/1*				
FOFES	3	PROGRAM*		3/16 D	3/1*				
FO TYPES	41			3/17 D	3/1*				
FOFMAP	164			3/18 D	3/1*				
FOFACC	2			3/19 D	3/1*				
FOFADDP	4			3/20 D	3/1*				
FOFALDOD	413			3/21 D	3/1*				
FOFATCH	1650			3/22 D	3/1*				
FOFCALOP	372			3/23 D	3/1*				
FOFCHALP	260			3/24 D	3/1*				
FOFCHNAM	12			3/25 D	3/1*				
FOFCHNM	4000			3/26 D	3/1*				
FOFCHOPT	23			3/27 D	3/1*				
FOFCHTYP	15			3/28 D	3/1*				
FOFCLOSE	173			3/29 D	3/1*				
FOFCOPYTH	14			3/30 D	3/1*				
FOFCYUP	42			3/31 D	3/1*				
FOFCYOT	16			3/32 D	3/1*				
FOFCDO	263			3/33 D	3/1*				
FOFCDEAB	4			3/34 D	3/1*				
FOFCERL	4			3/35 D	3/1*				
FOFCREL	15			3/36 D	3/1*				
FOFCREL	263			3/37 D	3/1*				
FOFCRPP	43			3/38 D	3/1*				
FOFCRESP	160			3/39 D	3/1*				
FOFCRFL	26			3/40 D	3/1*				
FOFCRLE	16			3/41 D	3/1*				
FOFCSUL	1600			3/42 D	3/1*				
FOFDAE	1673			3/43 D	3/1*				
FOFDAP	260			3/44 D	3/1*				
FOFDCRL	2670			3/45 D	3/1*				
FOFDPLBL	4000			3/46 D	3/1*				

BT 1 : CAT DIRECTORY AND MAKE TAG TPROC INITIALIZER
BY ROLTC SEE THE TABLE.

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CR_DFLCL	4	11/45 0	
CR_DLIE	2	12/08 0	16/04
CR_DMAR	4 6 10 12	11/16 0	
CR_DSPAC	2 4 6 8	12/21 0	
CR_DSTHY	1	16/30 0	18/21 20/30
CR_DTCd	2 4 6 8	11/15 0	
CR_ECL	1 2 4 6 8	11/17 0	
CR_EATR	4	11/31 0	
CR_EARE	2	11/29 0	
CR_EFREZ	1 2 4 6 8	11/20 0	
CR_EGET	2 4 6	16/40 0	21/1*
CR_EGETCP	4	16/44 0	
CR_EGETEV	1	11/44 0	
CR_ESINIT	2 4 6 8	16/46 0	
CR_ESTVCOP	2 4 6 8	16/43 0	
CR_ESIVE	1 2 4	16/39 0	21/1*
CR_EIVAT	1 2 4 6 8	16/45 0	
CR_EOD	4 6 8	16/41 0	
CR_ETEVF	2	11/45 0	
CR_EMPL	4	12/05 0	
CR_EMCHR	1 2 4 6	12/42 0	
CR_EMTR	4 6 8 10 12	16/47 0	21/4*
CR_EMSE	4	12/19 0	15/3*
CR_EMHTSP	4	11/34 0	
CR_EOCCL	2	16/53 0	
CR_EMONEYLUG	2 4 6	12/23 0	
CR_EMNS	2 4 6 8	12/18 0	
CR_EOPEN	4 6 8	11/10 0	
CR_EPCT	2	11/33 0	
CR_ELMAP	2 4 6	11/08 0	22/3*
CR_EPFIL	2	11/06 0	22/3*
CR_EREL	4 6 8 10 12	11/19 0	
CR_ERFI	1 2 4 6 8	12/20 0	
CR_ERFO	4 6 8 10 12	12/19 0	
CR_SRUSP	4 6 8 10 12	12/22 0	
CR_SCL	2 4 6 8 10 12	11/18 0	
CR_SNIT	4	11/26 0	
CR_SEIAS	1 2 4 6 8	12/10 0	22/0*
CR_SNDFV	4	11/43 0	
CR_SONSP	2 4 6	11/36 0	
CR_SQRET	1	11/32 0	
CR_SSUL	4 6 8	12/12 0	16/4*
CR_STES	2 4 6 8	11/29 0	
CR_TEMO	2	11/37 0	
CR_TDBA	2 4 6 8 10 12	11/21 0	
CR_WFILE	4	11/27 0	
CR_XORP	4 6 8 10 12	11/22 0	
CR_WPCT	6	3/28 0	10/0*
			10/10

BP_TYPE	1		3/17 D	15/09	16/13	17/09	18/12	19/12	20/03	21/15
			14/12	15/08	16/13	17/18	18/12	19/12	20/15	21/15
			14/12	15/12	16/13	17/18	18/19	19/12	20/15	21/25
			14/12	15/12	16/23	17/18	18/19	19/21	20/15	21/25
			14/19	15/12	16/23	17/27	18/19	19/21	20/28	21/25
			14/19	15/24	16/23	17/27	18/27	19/21	20/28	21/34
			14/19	15/24	16/35	17/27	18/27	19/30	20/28	21/34
			14/28	15/24	16/35	17/36	18/27	19/30	20/39	21/34
			14/28	15/34	16/35	17/36	18/37	19/30	20/39	21/46
			14/28	15/34	16/45	17/36	18/37	19/39	20/39	21/46
			14/37	15/34	16/45	17/45	18/37	19/39	20/47	21/46
			14/37	15/44	16/45	17/45	18/48	19/39	20/47	22/02
			14/37	15/44	17/01	17/45	18/48	19/49	20/47	22/02
			14/47	15/44	17/01	18/02	18/48	19/49	21/05	22/02
			14/47	16/04	17/01	18/02	19/02	19/49	21/05	
			14/47	16/04	17/09	18/02	19/02	20/03	21/05	
			15/03	16/04	17/09	18/12	19/02	20/03	21/15	
SUTCA_DF	3402	PROGRAM*		7/20	22/47 L					
SS_BLK	6			13/17 D						
SS_FCAP	5			13/16 D						
SS_FOAT	4			13/15 D						
SS_NONE	2			13/13 D						
SS_HCAP	7			13/16 D						
SS_IDAT	2			13/14 D						
SETOBJS	3567	PROGRAM*		22/09	22/14 L					
SD+CONV	6	EXTERNAL*		20/47						
SD+MAKE	6	EXTERNAL*		20/39						
SN+CRSH	6	EXTERNAL*		18/12						
SN+PSS1	6	EXTERNAL*		18/19						
SN+OSN1	6	EXTERNAL*		18/27						
SN+CSH2	6	EXTERNAL*		18/37						
STARTUP	6	PROGRAM*		3/13	3/14	3/38 L				
TYPES	6			4/02 L	14/32	15/38	16/25	17/11	18/21	20/05
				7/18 S	14/45	15/40	16/27	17/20	18/30	20/17
				7/29 S	15/07	15/49	16/37	17/29	18/40	20/41
				7/38	15/18	15/51	16/47	17/38	19/05	20/49
				14/22	15/24	16/06	16/48	17/47	19/15	21/17
				14/31	15/34	16/15	17/03	18/04	19/24	21/18
TYPEOPTS	2407	PROGRAM*		7/38	22/38 L					
T+ULLOC	1767			12/38 D						
T+CAUTH	1773			12/39 D						
T+LIST	1777			12/33 D	14/48					
T+LSCD	1737			12/36 D						
T+FVCH	1757			12/37 D						
T+TITLE	1777			12/34 D						
T+OPER	1677			12/35 D						
T+PROG	1777			12/31 D	12/32					
T+SPD00	1777			12/32 D						

INIT : DAT DIRECTORY AND NAME TAG IPROC INITIALIZER
SY POLTC REFERENCE TABLE.

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:I:	54	9/27 D	15/05 D	16/13	17/09	18/12 D	19/12	20/03	21/15 D
		14/12	15/02	16/13 D	17/18	18/12	19/12 D	20/15	21/15
		14/12 D	15/12	16/13	17/18 D	18/19	19/12	20/15 D	21/25
		14/12	15/12 D	16/23	17/18	18/19 D	19/21	20/15	21/25 D
		14/19	15/12	16/23 D	17/27	18/19	19/21 D	20/28	21/25
		14/19 D	15/24	16/23	17/27 D	18/27	19/21	20/28 D	21/34
		14/19	15/24 D	16/35	17/27	18/27 D	19/30	20/28	21/34 D
		14/28	15/24	16/35 D	17/36	18/27	19/30	20/39	21/34
		14/28 D	15/34	16/35	17/36 D	18/37	19/30	20/39 D	21/46
		14/28	15/34 D	16/45	17/36	18/37 D	19/39	20/39	21/46 D
		14/37	15/34	16/45 D	17/45	18/37	19/39 D	20/47	21/46
		14/37 D	15/44	16/45	17/45 D	18/48	19/39	20/47 D	22/02
		14/37	15/44 D	17/01	17/45	18/48 D	19/49	20/47	22/02 D
		14/47	15/44	17/01 D	18/02	18/48	19/49 D	21/05	22/02
		14/47 D	16/04	17/01	18/02 D	19/02	19/49	21/05	D
		14/47	16/04 D	17/09	18/02	19/02 D	20/03	21/05	
		15/13	16/04	17/09 D	18/12	19/02	20/03 D	21/15	

DI 1 : MAJ. DIRECTORY AND NAME TAG TPROC INITIALIZED
SYNTHETIC REFERENCE TABLE.

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J:	2	14/12 D	15/12 D	15/49	15/28	17/21	18/31	20/08	21/17 D
		14/19 D	15/13 D	15/49 D	15/29	17/27 D	18/31 D	20/09	21/17
		14/22	15/14	15/49	16/29 D	17/29	18/31	20/09 D	21/18
		14/22 D	15/14 D	15/50	16/29	17/29 D	18/37 D	20/09	21/18 D
		14/22	15/14	15/50 D	16/35 D	17/29	18/40	20/15 D	21/18
		14/28 D	15/17	15/50	16/37	17/30	18/40 D	20/17	21/19
		14/31	15/17 D	15/51	16/37 D	17/30 D	18/40	20/17 D	21/19 D
		14/31 D	15/17	15/51 D	16/37	17/30	18/48 D	20/17	21/19
		14/31	15/19	15/51	16/38	17/36 D	19/02 D	20/18	21/25 D
		14/37 D	15/19 D	16/04 D	16/38 D	17/38	19/05	20/18 D	21/27
		14/39	15/19	16/06	16/38	17/38 D	19/05 D	20/18	21/27 D
		14/39 D	15/24 D	16/06 D	16/39	17/38	19/05	20/19	21/27
		14/39	15/24	16/06	16/39 D	17/39	19/06	20/19 D	21/34 D
		14/40	15/24 D	16/07	16/39	17/39 D	19/06 D	20/19	21/37
		14/40 D	15/24	16/07 D	16/45 D	17/39	19/06	20/20	21/37 D
		14/40	15/27	16/07	16/47	17/45 D	19/12 D	20/20 D	21/37
		14/41	15/27 D	16/13 D	16/47 D	17/47	19/15	20/20	21/38
		14/41 D	15/27	16/15	16/47	17/47 D	19/15 D	20/21	21/38 D
		14/41	15/28	16/15 D	16/48	17/47	19/15	20/21 D	21/38
		14/47 D	15/28 D	16/15	16/48 D	17/48	19/21 D	20/21	21/46 D
		14/49	15/28	16/16	16/48	17/48 D	19/24	20/22	21/48
		14/49 D	15/34 D	16/16 D	17/01 D	17/48	19/24 D	20/22 D	21/48 D
		14/49	15/34	16/16	17/03	17/49	19/24	20/22	21/48
		14/50	15/34 D	16/17	17/03 D	17/49 D	19/30 D	20/28 D	21/49
		14/50 D	15/34	16/17 D	17/03	17/49	19/39 D	20/30	21/49 D
		14/50	15/37	16/17	17/09 D	18/02 D	19/49 D	20/30 D	21/49
		15/03 D	15/37 D	16/23 D	17/11	18/04	20/03 D	20/30	22/02 D
		15/05	15/37	16/25	17/11 D	18/04 D	20/05	20/39 D	22/04
		15/05 D	15/37	16/25 D	17/11	18/04	20/05 D	20/41 D	22/04 D
		15/15	15/38 D	16/25	17/12	18/12 D	20/05	20/41 D	22/04
		15/16	15/38	16/26	17/12 D	18/19 D	20/06	20/41	22/05
		15/06 D	15/38	16/26 D	17/12	18/21	20/06 D	20/47 D	22/05 D
		15/06	15/38 D	16/26	17/18 D	18/21 D	20/06	20/49	22/05
		15/07	15/38	16/27	17/20	18/21	20/07	20/49 D	
		15/07 D	15/42	16/27 D	17/20 D	18/27 D	20/07 D	20/49	
		15/07	15/42	16/27	17/20	18/30	20/07	21/05 D	
		15/13 D	15/42	16/28	17/21	18/30 D	20/08	21/15 D	
		15/15	15/42 D	16/28 D	17/21 D	18/30	20/08 D	21/17	
		12/03 D	12/07	12/09 D	12/11	12/14	12/16 D	12/19	12/22
		12/04	12/07 D	12/09	12/12	12/14 D	12/16	12/20	12/22 D
		12/04 D	12/07	12/10	12/12 D	12/14	12/18	12/20 D	12/22
		12/04	12/07	12/10 D	12/12	12/15	12/18 D	12/20	12/23
		12/05	12/08 D	12/10	12/13	12/15 D	12/18	12/21	12/23 D
		12/05 D	12/08	12/11	12/13 D	12/15	12/19	12/21 D	12/23
		12/05	12/08	12/11 D	12/13	12/16	12/19 D	12/21	

11.50.15.1: 12/13/71 SCOPE2D OF 18/27/71
11.50.16.1: CNE=14450/126500 AT CP= 0 SEC
11.50.17.1: COMPASS, SCS + TERRCTSTS
11.50.18.1: ASSEMBLY COMPLETE.
11.50.19.1: END
11.50.20.1: CONT
11.50.21.1: USE P. GRS - 47.466 SEC
11.50.22.1: SCOPE GRP - 5.635 SEC
11.50.23.1: SCOPE FCS - 5.331 SEC
11.50.24.1: SCOPE MAP - 5.147 SEC
11.50.25.1: DISK GRP - 13.451 SEC
11.50.26.1: DISK FCS - 12.295 SEC
11.50.27.1: DISK MAP - 1.244 SEC
11.50.28.1: SYSTEM - 1761 LINES

11.55.42. 1774 LINES PRINTED BY PRINTER DRIVER ON L-2