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! Image Section Synopsis !
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Cluster	Type	Pages	Base Addr	Disk VBN	PFC	Protection and Paging	Global Sec. Name	Match	Majorid	Minorid
CLUSTER1		3	6	00000000-R	2	0 READ ONLY				
DEFAULT_CLUSTER		4	1	P-00000C00-R	8	0 READ WRITE	COPY ON REF			
		2	1	00000E00-R	9	0 READ WRITE	FIXUP VECTORS			
COBRTL		3	55	00000000-R	0	0 READ ONLY		COBRTL_001	LESS/EQUAL	1 10
		4	1	00006E00-R	0	0 READ WRITE	COPY ON REF	COBRTL_002	LESS/EQUAL	1 10
		4	1	P-00007000-R	0	0 READ WRITE	COPY ON REF	COBRTL_003	LESS/EQUAL	1 10
		2	1	00007200-R	0	0 READ WRITE	FIXUP VECTORS	COBRTL_004	LESS/EQUAL	1 10
LIBRTL		3	111	00000000-R	0	0 READ ONLY		LIBRTL_001	LESS/EQUAL	1 11
		4	1	0000DE00-R	0	0 READ WRITE	DEMAND ZERO	LIBRTL_002	LESS/EQUAL	1 11
MTHRTL		3	115	00000000-R	0	0 READ ONLY		MTHRTL_001	LESS/EQUAL	129 32778
		2	1	0000E600-R	0	0 READ WRITE	FIXUP VECTORS	MTHRTL_002	LESS/EQUAL	129 32778

Key for special characters above:

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: R - Relocatable :
: P - Protected :
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Program Section Synopsis

Psect Name	Module Name	Base	End	Length	Align	Attributes
\$RPG\$VECTOR	RPG\$VECTOR	00000000	00000057	00000058 (	88.) LONG 2	PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC
		00000000	00000057	00000058 (	88.) LONG 2	
_LIB\$CODE	LIB\$AB_CVTPP_0	00000058	00000157	00000100 (	256.) LONG 2	PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC
		00000058	00000157	00000100 (	256.) LONG 2	
_RPG\$CODE	RPG\$IOEXCEPTION	00000158	00000B3F	000009E8 (	2536.) LONG 2	PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC
	RPG\$HANDLER	00000158	00000286	0000012F (	303.) LONG 2	
	RPG\$ERROR	00000288	0000030D	00000086 (	134.) LONG 2	
	RPG\$PRINT	00000310	00000330	00000021 (	33.) LONG 2	
	RPG\$OPEN	00000334	0000053A	00000207 (	519.) LONG 2	
	RPG\$EXT_INDS	0000053C	000005D4	00000099 (	153.) LONG 2	
	RPG\$UPDATE	000005D8	00000678	000000A1 (	161.) LONG 2	
	RPG\$SQRT	0000067C	00000802	00000187 (	391.) LONG 2	
	RPG\$DSPLY	00000804	000008E9	000000E6 (	230.) LONG 2	
	RPG\$BTZ	000008EC	000009E2	000000F7 (	247.) LONG 2	
	RPG\$DIVIDE	000009E4	00000AE3	00000100 (	256.) LONG 2	
		00000AE4	00000B3F	0000005C (	92.) LONG 2	
MSGPTR\$AAAAAAA	RPG\$MSGDEF	00000C00	00000C0F	00000010 (	16.) LONG 2	PIC,USR,OVR,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00000C00	00000C0F	00000010 (	16.) LONG 2	
MSGPTR\$AAAAAAB	RPG\$MSGDEF	00000C10	00000C13	00000004 (	4.) LONG 2	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00000C10	00000C13	00000004 (	4.) LONG 2	
MSGPTR\$AAAAAAC	RPG\$MSGDEF	00000C14	00000C17	00000004 (	4.) LONG 2	PIC,USR,OVR,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00000C14	00000C17	00000004 (	4.) LONG 2	
MSGPTR\$SECTION	RPG\$MSGDEF	00000C18	00000C26	0000000F (15.) BYTE 0	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00000C18	00000C26	0000000F (15.) BYTE 0	

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Symbol Cross Reference !

Symbol	Value	Defined By	Referenced By ...
COB\$\$RET_A_AB_PREV	00000E5C-RX	COBRTL	RPG\$DSPLY
COB\$ACC_DATE	00000E54-RX	COBRTL	RPG\$UDATE
COB\$ACC_SCR	00000E58-RX	COBRTL	RPG\$DSPLY
COB\$CVTID_R7	00000E50-RX	COBRTL	RPG\$SQRT
COB\$CVTLI_R8	00000E4C-RX	COBRTL	RPG\$SQRT
COB\$CVTPD_R9	00000E74-RX	LIBRTL	RPG\$SQRT
COB\$CVTRDP_R9	00000E78-RX	LIBRTL	RPG\$SQRT
COB\$CVTWI_R8	00000E48-RX	COBRTL	RPG\$SQRT
COB\$DISP_SCR	00000E60-RX	COBRTL	RPG\$DSPLY
COB\$CALFAI	00198084	COB\$MSGDEF	
COB\$CANFAIL	0019825C	COB\$MSGDEF	
COB\$DELINCOPE	00198194	COB\$MSGDEF	
COB\$DELNO_R_S	00198184	COB\$MSGDEF	
COB\$DELUNDFIL	0019818C	COB\$MSGDEF	
COB\$DISMORMAX	001981FC	COB\$MSGDEF	
COB\$EOFON_ACC	001981EC	COB\$MSGDEF	RPG\$HANDLER
COB\$ERRDURACC	001981F4	COB\$MSGDEF	RPG\$HANDLER
COB\$ERRDURDIS	0019827C	COB\$MSGDEF	RPG\$HANDLER
COB\$ERRDURPOS	001982F4	COB\$MSGDEF	
COB\$ERRDURSOR	00198074	COB\$MSGDEF	
COB\$ERRON_FIL	0019809C	COB\$MSGDEF	
COB\$EXPDBOVER	001982C4	COB\$MSGDEF	
COB\$FACILITY	00000019	COB\$MSGDEF	
COB\$FAIFREEVM	00198274	COB\$MSGDEF	
COB\$FAIGET_EF	0019829C	COB\$MSGDEF	
COB\$FAIGET_VM	0019826C	COB\$MSGDEF	
COB\$FATINTERR	00198294	COB\$MSGDEF	
COB\$FILALRCLO	001980DC	COB\$MSGDEF	
COB\$FILALRLOC	001980AC	COB\$MSGDEF	
COB\$FILALROPE	00198084	COB\$MSGDEF	
COB\$FILCLOLOC	001980BC	COB\$MSGDEF	
COB\$FILNOTFOU	001980CC	COB\$MSGDEF	
COB\$GOTO_ALT	00198044	COB\$MSGDEF	
COB\$INTDIVZER	0019821C	COB\$MSGDEF	
COB\$INTEXPOVE	00198204	COB\$MSGDEF	
COB\$INTEXPUND	0019820C	COB\$MSGDEF	
COB\$INTRESOPE	00198214	COB\$MSGDEF	
COB\$INVARG	00198264	COB\$MSGDEF	RPG\$HANDLER
COB\$INVCHANAM	0019824C	COB\$MSGDEF	
COB\$INVDECDAT	001982AC	COB\$MSGDEF	
COB\$INVDECDIG	00198224	COB\$MSGDEF	
COB\$INVDEFVAL	001982FC	COB\$MSGDEF	
COB\$INVLINVAL	0019808C	COB\$MSGDEF	
COB\$KEYNOTMAT	001982CC	COB\$MSGDEF	
COB\$LSTHNDLDB	001982BC	COB\$MSGDEF	
COB\$LSTHNDUSE	001982B4	COB\$MSGDEF	
COB\$NAMNOTLIN	00198244	COB\$MSGDEF	
COB\$NESERRPER	00198054	COB\$MSGDEF	
COB\$NORMAL	00198001	COB\$MSGDEF	

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Symbol	Value	Defined By	Referenced By ...
COB\$NO_NEXLOG	001980E4	COB\$MSGDEF	
COB\$NO_NEXVAL	001980F4	COB\$MSGDEF	
COB\$NO_SPACE	001980C4	COB\$MSGDEF	
COB\$NO_USEPRO	00198094	COB\$MSGDEF	
COB\$OCDEPOVE	00198064	COB\$MSGDEF	
COB\$OPTMISCLO	001980D4	COB\$MSGDEF	
COB\$OPTMISOPE	001980A4	COB\$MSGDEF	
COB\$OPTMISREA	001980EC	COB\$MSGDEF	
COB\$OPTMISSTA	00198154	COB\$MSGDEF	
COB\$ORGNOTMAT	00198254	COB\$MSGDEF	
COB\$PRIKEYCHA	001981CC	COB\$MSGDEF	
COB\$REAINCOPE	00198114	COB\$MSGDEF	
COB\$REAMP D R	001982EC	COB\$MSGDEF	
COB\$REASMAMIN	001981E4	COB\$MSGDEF	
COB\$REAUOFIL	0019810C	COB\$MSGDEF	
COB\$REACTPER	0019804C	COB\$MSGDEF	
COB\$REACTUSE	0019828C	COB\$MSGDEF	
COB\$RECLOCDEL	0019817C	COB\$MSGDEF	
COB\$RECLOCREA	001980FC	COB\$MSGDEF	
COB\$RECLOCREW	0019819C	COB\$MSGDEF	
COB\$RECLOCSTA	0019815C	COB\$MSGDEF	
COB\$RECLOCWRI	00198174	COB\$MSGDEF	
COB\$RECLOC OK	00198104	COB\$MSGDEF	
COB\$RECNOTEXI	0019814C	COB\$MSGDEF	
COB\$RECNOTLOC	001982DC	COB\$MSGDEF	
COB\$REWCRELUP	001981C4	COB\$MSGDEF	
COB\$REWDISDUP	001981D4	COB\$MSGDEF	
COB\$REWINCOPE	00198144	COB\$MSGDEF	
COB\$REWNO R S	00198134	COB\$MSGDEF	
COB\$REWSMAMIN	0019823C	COB\$MSGDEF	
COB\$REWUNOFIL	0019813C	COB\$MSGDEF	
COB\$SETEXTFAI	001982A4	COB\$MSGDEF	
COB\$STAINCOPE	0019816C	COB\$MSGDEF	
COB\$STAUNOFIL	00198164	COB\$MSGDEF	
COB\$SUBOVELON	0019806C	COB\$MSGDEF	
COB\$TIMOVELON	0019805C	COB\$MSGDEF	
COB\$UNDEF EXP	0019827C	COB\$MSGDEF	
COB\$UNEINSCON	0019807C	COB\$MSGDEF	
COB\$UNLNO CUR	001982E4	COB\$MSGDEF	
COB\$UNLUNOFIL	001982D4	COB\$MSGDEF	
COB\$USE EXIT	00198284	COB\$MSGDEF	
COB\$WRIBEYBOU	0019811C	COB\$MSGDEF	
COB\$WRICREDUP	001981AC	COB\$MSGDEF	
COB\$WRIDISDUP	001981DC	COB\$MSGDEF	
COB\$WRIDUPALT	001981BC	COB\$MSGDEF	
COB\$WRIDUPKEY	001981A4	COB\$MSGDEF	
COB\$WRIINCOPE	0019812C	COB\$MSGDEF	
COB\$WRINOTASC	001981B4	COB\$MSGDEF	
COB\$WRISMAMIN	00198234	COB\$MSGDEF	
COB\$WRIUNOFIL	00198124	COB\$MSGDEF	
LIB\$AB CVTTP_0	00000058-R	LIB\$AB_CVTTP_0	RPG\$SORT
LIB\$GET_COMMAND	00000E80-RX	LIBRTL	RPG\$PRINT

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Symbol	Value	Defined By	Referenced By ...		
LIB\$SIGNAL	00000E88-RX	LIBRTL	RPG\$DSPLY	RPG\$HANDLER	
LIB\$STOP	00000E84-RX	LIBRTL	RPG\$ERROR	RPG\$EXT_INDS	RPG\$IOEXCEPTION
			RPG\$SQRT	RPG\$UDATE	
LIB\$_AMBKEY	0015823C	LIB\$MSGDEF			
LIB\$_AMBSYMDEF	00158374	LIB\$MSGDEF			
LIB\$_ATTCONSTO	0015827C	LIB\$MSGDEF			
LIB\$_ATTREQREF	00158394	LIB\$MSGDEF			
LIB\$_BADBLOADR	00158264	LIB\$MSGDEF			
LIB\$_BADBLOSIZ	0015826C	LIB\$MSGDEF			
LIB\$_BADCCC	0015C000	LIB\$MSGDEF			
LIB\$_BADSTA	00158204	LIB\$MSGDEF			
LIB\$_BADTAGVAL	001583B4	LIB\$MSGDEF			
LIB\$_DECOVF	0015833C	LIB\$MSGDEF			
LIB\$_DESSTROVF	0015832C	LIB\$MSGDEF			
LIB\$_EF_ALRFRE	0015829C	LIB\$MSGDEF			
LIB\$_EF_ALRRES	001582A4	LIB\$MSGDEF			
LIB\$_EF_RESSYS	001582AC	LIB\$MSGDEF			
LIB\$_EOMERROR	0015C008	LIB\$MSGDEF			
LIB\$_EOMFATAL	0015C010	LIB\$MSGDEF			
LIB\$_EOMWARN	0015C018	LIB\$MSGDEF			
LIB\$_ERRROUCAL	00158029	LIB\$MSGDEF			
LIB\$_FACILITY	00000015	LIB\$MSGDEF			
LIB\$_FATERRLIP	0015820C	LIB\$MSGDEF			
LIB\$_FILFAIM/	00159008	LIB\$MSGDEF			
LIB\$_FLT0VF	00158344	LIB\$MSGDEF			
LIB\$_FLTUND	0015834C	LIB\$MSGDEF			
LIB\$_GSDTYP	0015C020	LIB\$MSGDEF			
LIB\$_ILLFMLCNT	0015C028	LIB\$MSGDEF			
LIB\$_ILLMODNAM	0015C030	LIB\$MSGDEF			
LIB\$_ILLPSCLN	0015C038	LIB\$MSGDEF			
LIB\$_ILLRECLN	0015C040	LIB\$MSGDEF			
LIB\$_ILLRECLN2	0015C048	LIB\$MSGDEF			
LIB\$_ILLRECTY2	0015C058	LIB\$MSGDEF			
LIB\$_ILLRECTYP	0015C050	LIB\$MSGDEF			
LIB\$_ILLSYMLN	0015C060	LIB\$MSGDEF			
LIB\$_INPSTRTRU	0015821C	LIB\$MSGDEF			
LIB\$_INSCLIMEM	0015836C	LIB\$MSGDEF			
LIB\$_INSEF	00158294	LIB\$MSGDEF			
LIB\$_INSLUN	001582B4	LIB\$MSGDEF			
LIB\$_INSVIRMEM	00158214	LIB\$MSGDEF			
LIB\$_INTLOGERR	0015822C	LIB\$MSGDEF			
LIB\$_INTOVF	00158334	LIB\$MSGDEF			
LIB\$_INVARG	00158234	LIB\$MSGDEF			
LIB\$_INVCHA	001582E4	LIB\$MSGDEF			
LIB\$_INVCLADSC	00158314	LIB\$MSGDEF			
LIB\$_INVCLADTY	0015831C	LIB\$MSGDEF			
LIB\$_INVCVT	00158304	LIB\$MSGDEF			
LIB\$_INVDTYDSC	0015830C	LIB\$MSGDEF			
LIB\$_INVFILSPE	0015839C	LIB\$MSGDEF			
LIB\$_INVMBDS	00158324	LIB\$MSGDEF			
LIB\$_INVOPEZON	0015838C	LIB\$MSGDEF			
LIB\$_INVSCRPOS	001582D4	LIB\$MSGDEF			

Symbol	Value	Defined By	Referenced By ...
LIBS_INVSTRDES	00158224	LIB\$MSGDEF	
LIBS_INVSYMNAM	0015838C	LIB\$MSGDEF	
LIBS_INVTYPE	0015828C	LIB\$MSGDEF	
LIBS_INVXAB	001583A4	LIB\$MSGDEF	
LIBS_KEYALRINS	00158021	LIB\$MSGDEF	
LIBS_KEYNOTFOU	001582FC	LIB\$MSGDEF	
LIBS_LUNALRFRE	0015828C	LIB\$MSGDEF	
LIBS_LUNRESSYS	001582C4	LIB\$MSGDEF	
LIBS_NEGANS	00159010	LIB\$MSGDEF	
LIBS_NOCLI	0015837C	LIB\$MSGDEF	
LIBS_NOEOM	0015C068	LIB\$MSGDEF	
LIBS_NORMAL	00158001	LIB\$MSGDEF	
LIBS_NOSUCHSYM	00158364	LIB\$MSGDEF	
LIBS_NOTFOU	00158274	LIB\$MSGDEF	
LIBS_NO STRACT	001583AC	LIB\$MSGDEF	
LIBS_ONENTQUE	00158019	LIB\$MSGDEF	
LIBS_OUTSTRTRU	00159000	LIB\$MSGDEF	
LIBS_PAGLIMEXC	001583C4	LIB\$MSGDEF	
LIBS_PUSSTAOVE	0015824C	LIB\$MSGDEF	
LIBS_QUEWASEMP	001582EC	LIB\$MSGDEF	
LIBS_QUICONACT	00159020	LIB\$MSGDEF	
LIBS_QUIPRO	00159018	LIB\$MSGDEF	
LIBS_RECTOOSML	0015C070	LIB\$MSGDEF	
LIBS_RESTART	00158031	LIB\$MSGDEF	
LIBS_ROPRAND	00158354	LIB\$MSGDEF	
LIBS_SCRBUFOVF	001582CC	LIB\$MSGDEF	
LIBS_SECINTFAI	001582DC	LIB\$MSGDEF	
LIBS_SEQUENCE	0015C078	LIB\$MSGDEF	
LIBS_SEQUENCE2	0015C080	LIB\$MSGDEF	
LIBS_SIGNO_ARG	0015825C	LIB\$MSGDEF	
LIBS_STRIS_INT	001582F4	LIB\$MSGDEF	
LIBS_STRLVC	0015C088	LIB\$MSGDEF	
LIBS_STRTRU	00158011	LIB\$MSGDEF	
LIBS_SYNTAXERR	00158284	LIB\$MSGDEF	
LIBS_UNECLIERR	00158384	LIB\$MSGDEF	
LIBS_UNRKEY	00158244	LIB\$MSGDEF	
LIBS_USEFLORES	00158254	LIB\$MSGDEF	
LIBS_WRONUMARG	0015835C	LIB\$MSGDEF	
MTH\$DSQRT R5	00000E94-RX	MTHRTL	RPG\$SQRT
MTH\$FACILITY	00000016	MTH\$MSGDEF	
MTH\$FLOOVEMAT	001682C4	MTH\$MSGDEF	
MTH\$FLOUNDMAT	001682CC	MTH\$MSGDEF	
MTH\$INVARGMAT	0016828C	MTH\$MSGDEF	
MTH\$LOGZERNEG	0016829C	MTH\$MSGDEF	
MTH\$SIGLOSMAT	001682BC	MTH\$MSGDEF	
MTH\$SINCOSSIG	001682BC	MTH\$MSGDEF	
MTH\$SQUROONEG	001682A4	MTH\$MSGDEF	RPG\$SQRT
MTH\$UNDEXP	00168294	MTH\$MSGDEF	
MTH\$WRONUMARG	00168284	MTH\$MSGDEF	
OTSS\$VT_L TI	00000E70-RX	LIBRTL	RPG\$EXT_INDS
OTSS\$DIV_P\$SHORT	00000E7C-RX	LIBRTL	RPG\$DIVIDE
OTSS_FACILITY	00000017	OTSS\$MSGDEF	

Symbol	Value	Defined By	Referenced By ...
OTSS_FATINTERR	00178014	OTSS\$MSGDEF	
OTSS_INPCONERR	0017802C	OTSS\$MSGDEF	
OTSS_INSVIRMEM	00178044	OTSS\$MSGDEF	
OTSS_INTDATCOR	0017801C	OTSS\$MSGDEF	
OTSS_INVSTRDES	0017800C	OTSS\$MSGDEF	
OTSS_IO_CONCLO	00178024	OTSS\$MSGDEF	
OTSS_OUTCONERR	00178034	OTSS\$MSGDEF	
OTSS_STRIS_INT	0017803C	OTSS\$MSGDEF	
OTSS_USEFLORES	00178400	OTSS\$MSGDEF	
OTSS_WRONUMARG	0017804C	OTSS\$MSGDEF	
RPG\$BTZ	000009E4-R	RPG\$BTZ	RPG\$D\$PLY RPG\$SQRT
RPG\$DIV_LONG	00000AE4-RU	RPG\$DIVIDE	RPG\$VECTOR
RPG\$D\$PLY	00000BF0-RU	RPG\$D\$PLY	RPG\$VECTOR
RPG\$ERROR	00000310-RU	RPG\$ERROR	RPG\$VECTOR
RPG\$EXT_INDS	000005E4-RU	RPG\$EXT_INDS	RPG\$VECTOR
RPG\$HANDLER	00000288-RU	RPG\$HANDLER	RPG\$VECTOR
RPG\$IOEXCEPTION	00000158-RU	RPG\$IOEXCEPTION	RPG\$OPEN RPG\$VECTOR
RPG\$OPEN_INDEXED	0000053C-RU	RPG\$OPEN	RPG\$VECTOR
RPG\$PRINT	00000380-RU	RPG\$PRINT	RPG\$VECTOR
RPG\$SQRT	00000804-RU	RPG\$SQRT	RPG\$VECTOR
RPG\$TERM_PRINT	000004FB-RU	RPG\$PRINT	RPG\$VECTOR
RPG\$UPDATE	000006CC-RU	RPG\$UPDATE	RPG\$VECTOR
RPG\$_ENDOF_FIL	00F98014-U	RPG\$MSGDEF	RPG\$IOEXCEPTION
RPG\$_ERRDURDSP	00F9801C-U	RPG\$MSGDEF	RPG\$HANDLER
RPG\$_EXESUBALR	00F98024-U	RPG\$MSGDEF	
RPG\$_EXTINDOFF	00F9802C-U	RPG\$MSGDEF	RPG\$IOEXCEPTION RPG\$PRINT
RPG\$_FACILITY	000000F9	RPG\$MSGDEF	
RPG\$_FATINTERR	00F98034-U	RPG\$MSGDEF	RPG\$EXT_INDS RPG\$IOEXCEPTION RPG\$UPDATE
RPG\$_FLDOUTSEQ	00F9803C-U	RPG\$MSGDEF	
RPG\$_FORFILE	00F98003-U	RPG\$MSGDEF	RPG\$IOEXCEPTION
RPG\$_HLTINDON	00F98044-U	RPG\$MSGDEF	
RPG\$_INVARG	00F9804C-U	RPG\$MSGDEF	RPG\$EXT_INDS RPG\$HANDLER RPG\$SQRT
RPG\$_INVARRIND	00F98054-U	RPG\$MSGDEF	RPG\$HANDLER
RPG\$_INVNUMENT	00F9800B-U	RPG\$MSGDEF	RPG\$D\$PLY
RPG\$_INVNUMFLD	00F9805C-U	RPG\$MSGDEF	RPG\$HANDLER
RPG\$_INVUDATE	00F98064-U	RPG\$MSGDEF	RPG\$UPDATE
RPG\$_KEYNOTFND	00F9806C-U	RPG\$MSGDEF	RPG\$IOEXCEPTION
RPG\$_KEYNOTMAT	00F98074-U	RPG\$MSGDEF	RPG\$IOEXCEPTION
RPG\$_LESIN_TAB	00F9807C-U	RPG\$MSGDEF	
RPG\$_MORIN_TAB	00F98084-U	RPG\$MSGDEF	
RPG\$_NONASCKEY	00F9808C-U	RPG\$MSGDEF	RPG\$IOEXCEPTION
RPG\$_ORGNOTIND	00F98094-U	RPG\$MSGDEF	RPG\$OPEN
RPG\$_RECEXCMA	00F9809C-U	RPG\$MSGDEF	
RPG\$_RE_NOTDET	00F980A4-U	RPG\$MSGDEF	
RPG\$_RE_COUTSEQ	00F980AC-U	RPG\$MSGDEF	
RPG\$_TABOUTSEQ	00F980B4-U	RPG\$MSGDEF	
RPG\$_UPDNO_CUR	00F980BC-U	RPG\$MSGDEF	RPG\$IOEXCEPTION
STR\$OPCASE	00000E6C-RX	LIBRTL	RPG\$PRINT RPG\$UPDATE
SY\$CREATE	7FFEE1C8	SY\$P1_VECTOR	RPG\$OPEN
SY\$DISPLAY	7FFEE1D8	SY\$P1_VECTOR	RPG\$OPEN
SY\$OPEN	7FFEE208	SY\$P1_VECTOR	RPG\$OPEN
SY\$PUT	7FFEE188	SY\$P1_VECTOR	RPG\$PRINT

<u>Symbol</u>	<u>Value</u>	<u>Defined By</u>	<u>Referenced By ...</u>	
SYS\$TRNLOG	7FFEE058	SYS\$P1_VECTOR	RPG\$EXT_INDS	RPG\$UDATE

! Symbols By Value !

Value	Symbols...
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00000015	LIBS_FACILITY
00000016	MTHS_FACILITY
00000017	OTSS_FACILITY
00000019	COBS_FACILITY
00000058	R-LIB\$AB CVTTP 0
000000F9	RPG\$ FACILITY
00000158	R-RPG\$TOEXCEPTION
00000288	R-RPG\$HANDLER
00000310	R-RPG\$ERROR
00000380	R-RPG\$PRINT
000004FB	R-RPG\$TERM_PRINT
0000053C	R-RPG\$OPEN_INDEXED
000005E4	R-RPG\$EXT_INDS
000006CC	R-RPG\$UPDATE
00000804	R-RPG\$SQRT
000008F0	R-RPG\$DSPLY
000009E4	R-RPG\$BTZ
00000AE4	R-RPG\$DIV LONG
00000E48	RX-COBS\$CVT\$R8
00000E4C	RX-COBS\$CVT\$R8
00000E50	RX-COBS\$CVT\$R7
00000E54	RX-COBS\$ACC_DATE
00000E58	RX-COBS\$ACC_SCR
00000E5C	RX-COBS\$RET_A_AB_PREV
00000E60	RX-COBS\$DISP_SCR
00000E6C	RX-STR\$UPCASE
00000E70	RX-OTSS\$CVT L T1
00000E74	RX-COBS\$CVT\$R9
00000E78	RX-COBS\$CVT\$R9
00000E7C	RX-OTSS\$DIV PK\$SHORT
00000E80	RX-LIB\$GET_COMMAND
00000E84	RX-LIB\$STOP
00000E88	RX-LIB\$SIGNAL
00000E94	RX-MTH\$DSQRT R5
00158001	LIBS_NORMAL
00158011	LIBS_STRTRU
00158019	LIBS_ONEENTQUE
00158021	LIBS_KEYALRINS
0C158029	LIBS_ERRROUCAL
00158031	LIBS_RESTART
00158204	LIBS_BADSTA
0015820C	LIBS_FATERRLIB
00158214	LIBS_INSVIRMEM
0015821C	LIBS_INPSTRTRU
00158224	LIBS_INVSTRDES
0015822C	LIBS_INTLOGERR
00158234	LIBS_INVARG
0015823C	LIBS_AMBKEY
00158244	LIBS_UNRKEY

Value	Symbols...
0015824C	LIB\$_PUSSTA0VE
00158254	LIB\$_USEFLORES
0015825C	LIB\$_SIGNO_ARG
00158264	LIB\$_BADBL0ADR
0015826C	LIB\$_BADBLOSIZ
00158274	LIB\$_NOTFOU
0015827C	LIB\$_ATTCONSTO
00158284	LIB\$_SYNTAXERR
0015828C	LIB\$_INVTPE
00158294	LIB\$_INSEF
0015829C	LIB\$_EF_ALRFRE
001582A4	LIB\$_EF_ALRRES
001582AC	LIB\$_EF_RESSYS
001582B4	LIB\$_INSLUN
001582BC	LIB\$_LUNALRFRE
001582C4	LIB\$_LUNRESSYS
001582CC	LIB\$_SCRBUFOVF
001582D4	LIB\$_INVSCRPOS
001582DC	LIB\$_SECINTFAI
001582E4	LIB\$_INVCHA
001582EC	LIB\$_QUEWASEMP
001582F4	LIB\$_STRIS_INT
001582FC	LIB\$_KEYNOTFOU
00158304	LIB\$_INVCVT
0015830C	LIB\$_INVDTYDSC
00158314	LIB\$_INVCLADSC
0015831C	LIB\$_INVCLADTY
00158324	LIB\$_INVNBDS
0015832C	LIB\$_DESSTROVF
00158334	LIB\$_INTOVF
0015833C	LIB\$_DECOVF
00158344	LIB\$_FLT0VF
0015834C	LIB\$_FLTUND
00158354	LIB\$_?OPRAND
0015835C	LIB\$_WRONUMARG
00158364	LIB\$_N0SUCHSYM
0015836C	LIB\$_INSCLIMEM
00158374	LIB\$_AMBSYMDEF
0015837C	LIB\$_NOCLI
00158384	LIB\$_UNECLIERR
0015838C	LIB\$_INVSYMNAM
00158394	LIB\$_ATTREQREF
0015839C	LIB\$_INVFILSPE
001583A4	LIB\$_INVXAB
001583AC	LIB\$_NO_STRACT
001583B4	LIB\$_BADTAGVAL
001583BC	LIB\$_INVOPEZON
001583C4	LIB\$_PAGLIMXC
00159000	LIB\$_OUTSTRTRU
00159008	LIB\$_FILFAIMAT
00159010	LIB\$_NEGANS
00159018	LIB\$_QUIPRO

Value	Symbols...
00159020	LIBS_QUICONACT
0015C000	LIBS_BADCCC
0015C008	LIBS_EOMERROR
0015C010	LIBS_EOMFATAL
0015C018	LIBS_EOMWARN
0015C020	LIBS_GSDTYP
0015C028	LIBS_ILLFMLCNT
0015C030	LIBS_ILLMODNAM
0015C038	LIBS_ILLPSCLN
0015C040	LIBS_ILLRECLN
0015C048	LIBS_ILLRECLN2
0015C050	LIBS_ILLRECTYP
0015C058	LIBS_ILLRECTY2
0015C060	LIBS_ILLSYMLN
0015C068	LIBS_NOEOM
0015C070	LIBS_RECTOOSML
0015C078	LIBS_SEQUENCE
0015C080	LIBS_SEQUENCE2
0015C088	LIBS_STRLVL
00168284	MTHS_WRONUMARG
0016828C	MTHS_INVARGMAT
00168294	MTHS_UNDEXP
0016829C	MTHS_LOGZERNEG
001682A4	MTHS_SQUROONEG
001682BC	MTHS_SIGLOSMAT
001682C4	MTHS_FLOOVEMAT
001682CC	MTHS_FLOUNDMAT
0017800C	OTSS_INVSTRDES
00178014	OTSS_FATINTERR
0017801C	OTSS_INTDATCOR
00178024	OTSS_IO_CONCLO
0017802C	OTSS_INPCONERR
00178034	OTSS_OUTCONERR
0017803C	OTSS_STRIS_INT
00178044	OTSS_INSVIRMEM
0017804C	OTSS_WRONUMARG
00178400	OTSS_USEFLORES
00198001	COBS_NORMAL
00198044	COBS_GOTO_ALT
0019804C	COBS_RECACTPER
00198054	COBS_NESERRPER
0019805C	COBS_TIMOVOLON
00198064	COBS_OCCDEPOVE
0019806C	COBS_SUBOVOLON
00198074	COBS_ERRDURSOR
0019807C	COBS_UNEINSCON
00198084	COBS_CALFAI
0019808C	COBS_INVLINVAL
00198094	COBS_NO_USEPRO
0019809C	COBS_ERRON_FIL
001980A4	COBS_OPTMISOPE
001980AC	COBS_FILALRLOC

MTHS_SINCOSSIG

Value	Symbols...
001980B4	COB\$_FILALROPE
001980BC	COB\$_FILCLOLOC
001980C4	COB\$_NO_SPACE
001980CC	COB\$_FI[NOTFOU
001980D4	COB\$_OPTMISCLO
001980DC	COB\$_FILALRCLO
001980E4	COB\$_NO_NEXLOG
001980EC	COB\$_OPTMISREA
001980F4	COB\$_NO_NEXVAL
001980FC	COB\$_RECLOCREA
00198104	COB\$_RECLOC_OK
0019810C	COB\$_REAUNOFIL
00198114	COB\$_REAINCOPE
0019811C	COB\$_WRIBEYBOU
00198124	COB\$_WRIUNOFIL
0019812C	COB\$_WRIINCOPE
00198134	COB\$_REWNO_R_S
0019813C	COB\$_REWUNOFTL
00198144	COB\$_REWINCOPE
0019814C	COB\$_RECNOTEXI
00198154	COB\$_OPTMISSTA
0019815C	COB\$_RECLOCSTA
00198164	COB\$_STAUNOFIL
0019816C	COB\$_STAINCOPE
00198174	COB\$_RECLOCWRI
0019817C	COB\$_RECLOCDEL
00198184	COB\$_DELNO_R_S
0019818C	COB\$_DELUNOFTL
00198194	COB\$_DELINCOPE
0019819C	COB\$_RECLOCREW
001981A4	COB\$_WRIDUPKEY
001981AC	COB\$_WRICREDUP
001981B4	COB\$_WRINOTASC
001981BC	COB\$_WRIDUPALT
001981C4	COB\$_REWCREDUP
001981CC	COB\$_PRIKEYCHA
001981D4	COB\$_REWDISDUP
001981DC	COB\$_WRIDISDUP
001981E4	COB\$_REASMAMIN
001981EC	COB\$_EOFON_ACC
001981F4	COB\$_ERRDURACC
001981FC	COB\$_DISMORMAX
00198204	COB\$_INTEXPOVE
0019820C	COB\$_INTEXPUND
00198214	COB\$_INTRESOPE
0019821C	COB\$_INTDIVZER
00198224	COB\$_INVDECDIG
0019822C	COB\$_UNDEF_EXP
00198234	COB\$_WRISMAMIN
0019823C	COB\$_REWSMAMIN
00198244	COB\$_NAMNOTLIN
0019824C	COB\$_INVCHANAM

Value	Symbols...
00198254	COB\$-ORGNOTMAT
0019825C	COB\$-CANFAIL
00198264	COB\$-INVARG
0019826C	COB\$-FAIGET VM
00198274	COB\$-FAIFREEVM
0019827C	COB\$-ERRDURDIS
00198284	COB\$-USE EXIT
0019828C	COB\$-REACTUSE
00198294	COB\$-FATINTERR
0019829C	COB\$-FAIGET EF
001982A4	COB\$-SETEXTFAI
001982AC	COB\$-INVDECDAT
001982B4	COB\$-LSTHNDUSE
001982BC	COB\$-LSTHNDLDB
001982C4	COB\$-EXPDBOVER
001982CC	COB\$-KEYNOTMAT
001982D4	COB\$-UNLUNOFIL
001982DC	COB\$-RECNOTLOC
001982E4	COB\$-UNLNO_CUR
001982EC	COB\$-REAMP_D R
001982F4	COB\$-ERRDURPOS
001982FC	COB\$-INVDEFVAL
00F98003	U-RPG\$-FORFILE
00F9800B	U-RPG\$-INVNUMENT
00F98014	U-RPG\$-ENDOF FIL
00F9801C	U-RPG\$-ERRDURDSP
00F98024	U-RPG\$-EXESUBALR
00F9802C	U-RPG\$-EXTINDOFF
00F98034	U-RPG\$-FATINTERR
00F9803C	U-RPG\$-FLDOUTSEQ
00F98044	U-RPG\$-HLTINDON
00F9804C	U-RPG\$-INVARG
00F98054	U-RPG\$-INVARRIND
00F9805C	U-RPG\$-INVNUMFLD
00F98064	U-RPG\$-INVUDATE
00F9806C	U-RPG\$-KEYNOTFND
00F98074	U-RPG\$-KEYNOTMAT
00F9807C	U-RPG\$-LESIN_TAB
00F98084	U-RPG\$-MORIN_TAB
00F9808C	U-RPG\$-NONASCKEY
00F98094	U-RPG\$-ORGNOTIND
00F9809C	U-RPG\$-RECEXCMA
00F980A4	U-RPG\$-RECNOTDET
00F980AC	U-RPG\$-RECOUTSEQ
00F980B4	U-RPG\$-TABOUTSEQ
00F980BC	U-RPG\$-UPDNO_CUR
7FFEE058	SYSS\$TRNLOG
7FFEE188	SYSS\$PUT
7FFEE1C8	SYSS\$CREATE
7FFEE1D8	SYSS\$DISPLAY
7FFEE208	SYSS\$OPEN

Value

Symbols...

Key for special characters above:

```
↑-----↑  
| * - Undefined |  
| U - Universal  |  
| R - Relocatable|  
| X - External   |  
↓-----↓
```

! Image Synopsis !

Virtual memory allocated: 00000000 00000FFF 00001000 (4096. bytes, 8. pages)
 Stack size: 0. pages
 Image header virtual block limits: 1. (1. block)
 Image binary virtual block limits: 2. (8. blocks)
 Image name and identification: RPGRTL V04-000
 Number of files: 10.
 Number of modules: 23.
 Number of program sections: 13.
 Number of global symbols: 878.
 Number of cross references: 327.
 Number of image sections: 11.
 Number of code references to shareable images: 16.
 Image type: PIC, SHAREABLE. Global Section Match=LESS/EQUAL, Ident, Major=1, Minor=100
 Map format: FULL WITH CROSS REFERENCE in file _\$255\$DUA28:[RPGRTL.LIS]RPGRTL.MAP;1
 Estimated map length: 162. blocks

! Link Run Statistics !

Performance Indicators	Page Faults	CPU Time	Elapsed Time
Command processing:	222	00:00:01.01	00:00:06.79
Pass 1:	280	00:00:01.53	00:00:15.24
Allocation/Relocation:	33	00:00:00.13	00:00:00.55
Pass 2:	44	00:00:00.58	00:00:06.14
Map data after object module synopsis:	21	00:00:01.15	00:00:01.32
Symbol table output:	4	00:00:00.04	00:00:00.28
Total run values:	604	00:00:04.44	00:00:30.32

Using a working set limited to 1950 pages and 1269 pages of data storage (excluding image)

Total number object records read (both passes): 412
of which 175 were in libraries and 2 were DEBUG data records containing 48 bytes

Number of modules extracted explicitly = 19
with 0 extracted to resolve undefined symbols

0 library searches were for symbols not in the library searched

A total of 6 global symbol table records was written

LINK/NOSYSLIB/SHARE=EXES:RPGRTL/MAP=MAPS:RPGRTL/FULL/CROSS COMS:RPGRTLLNK/OPTIONS

! RPGRTLLNK.OPT - Linker options file for building RPGRTL.EXE

- ! 1-001 - Original. DG 19-Apr-1983.
- ! 1-002 - Stop pulling in OTSS\$CNVOUT. It is now shared in LIBRTL.
LEB 23-May-1983
- ! 1-003 - Add in OTSS\$MSGDEF. Also change universal symbol RPG\$ HLTINDON
to messages H1 ISON, H2 ISON...H9 ISON. LEB 25-May-1983
- ! 1-004 - Reference to RPG\$ INVDTTYP taken out. DG 11-Jul-1983.
Changes in message names. DG 13-Jul-1983.

- 1-005 - Add NAME and IDENT statements. DG 25-Jul-1983.
- 1-006 - Add reference to RPG\$DSPLY. LEB 2-AUG-1983
- 1-006 - change ref to IMAGELIB to be in SYSS\$LIBRARY. change ref to RTL OLB to be RPGRTL.OLB. Pull obj's from other OLB's as necessary. MDL 25-Aug-1983
- 1-007 - Add in RPG\$DIVIDE. DG 5-Mar-1984

Specify image name and ident. Note that this is not the same as the global section ident given with GSMATCH. IDENT should change each time RPGRTL changes in a released version, such as a maintenance update. GSMATCH should change only when the vector is modified in an incompatible (backwards) fashion.

NAME=RPGRTL
IDENT='V04-000'

Specify the order of the PSECTs. The vector comes first.

COLLECT=CLUSTER1,\$RPG\$VECTOR, RPG\$CODE, COB\$CODE, MTH\$CODE, _LIB\$CODE
COLLECT=CLUSTER2, _RPG\$DATA, _COB\$DATA, _MTH\$DATA, _LIB\$DATA

Specify modules to be included. The first must be RPGVECTOR.

OBJ\$:RPGVECTOR,LIB\$:RPGRTL/INCLUDE=(-

RPG\$IOEXCEPTION,-
RPG\$HANDLER,-
RPG\$ERROR,-
RPG\$PRINT,-
RPG\$OPEN,-
RPG\$EXT INDS,-
RPG\$UPDATE,-
RPG\$SORT,-
RPG\$DSPLY, -
RPG\$BTZ,-
RPG\$DIVIDE,-
RPG\$MSGDEF)

RESOBJ\$:COBRTL/INCLUDE=(-

COB\$MSGDEF)

RESOBJ\$:LIBRTL/INCLUDE=(-

LIB\$AB CVTTP_0,-
LIB\$MSGDEF, =
OT\$MSGDEF)

RESOBJ\$:MTHRTL/INCLUDE=(-

MTH\$MSGDEF)

UNIVERSAL ==

RPG\$ _FORFILE,-
RPG\$ _ENDOF_FIL,-
RPG\$ _ERRDURDSP,-
RPG\$ _EXESUBALR,-
RPG\$ _EXTINDOFF,-
RPG\$ _FATINTERR,-
RPG\$ _FLDOUTSEQ,-
RPG\$ _HLTINDON,-
RPG\$ _INVARG,-
RPG\$ _INVARRIND,-
RPG\$ _INVNUMENT,-
RPG\$ _INVNUMFLD,-
RPG\$ _INVUDATE,-
RPG\$ _KEYNOTFND,-
RPG\$ _KEYNOTMAT,-
RPG\$ _LESIN_TAB,-
RPG\$ _MORIN_TAB,-
RPG\$ _NONASCKEY,-
RPG\$ _ORGNOTIND,-
RPG\$ _RECEXCMAX,-
RPG\$ _RECNOTDET,-
RPG\$ _RECOUTSEQ,-
RPG\$ _TABOUTSEQ,-
RPG\$ _UPDNO_CUR

SYSS\$LIBRARY:STARLET/INCLUDE=(SYSS\$P1_VECTOR,SYSS\$SDEF)

SYSS\$LIBRARY:IMAGELIB/LIBRARY

! Set global section match values

GSMATCH=LEQUAL,1,100

0331

AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
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This image contains a grid of numerous small, low-contrast screen displays. The displays are arranged in approximately 12 columns and 12 rows. Each display shows a different software utility or report. Several titles are legible, including:

- RMS0TRUNC LIS
- STAPPFLNM LIS
- RPGCUTPTO LIS
- RPGHANDLE LIS
- RPGMOVE1 LIS
- RPLIB REQ
- RMSGB LIS
- RPGRTL LIS
- RPGDPLY LIS
- RPGRTL MAP
- RPGPROLOG REQ
- RPGXTND LIS
- RPGLIB LIS
- RMS0SRCH LIS
- RMS0WAIT LIS
- RPGBTZ LIS
- RPGMOVE2 LIS
- RPGDIVIDE LIS
- RPGIOEXE LIS
- RPGDEF REQ
- RMS0UPDAT LIS
- RPGERRR LIS

The individual displays contain various types of data, such as lists of files, error messages, and configuration parameters, but the text is too small to read in detail. The overall appearance is that of a comprehensive software manual or a collection of reference screens for a VAX/VMS system.