



\*\*FILE\*\*ID\*\*LBRUSR

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{ LBRUSR.MDL  
Version V02-014

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MODIFIED BY:

V02-014	PCG0004 Add HELP flag to HLP.	Peter George	07-Jan-1982
V02-013	PCG0003 Add LIBLIST and NOTTERM flag to HLP.	Peter George	09-Dec-1981
V02-012	RPG0112 Support lower cased keywords	Bob Grosso	11-Aug-1981
V02-011	RPG0037 Add cre\$c_vmsv2.	Bob Grosso	20-Jul-1981
V02-010	RPG0036 Add lbr\$l_oldhdrptr.	Bob Grosso	15-Jul-1981
V02-009	RPG0035 Change lhi\$w_*luhrec to lhi\$l_*luhrec.	Bob Grosso	1-Jul-1981
V02-008	RPG0034 Change lhi\$l_*luhrec to lhi\$w_*luhrec. Change lbr\$c_maxluhlen to lbr\$c_maxluhrec = 32768.	Bob Grosso	18-Jun-1981
V02-007	PCG0002 Add PMPTDEF flag to HLP.	Peter George	19-May-1981
V02-006	PCG0001 Add lbr\$output_help stuff.	Peter George	08-May-1981

{ V02-005 RPG0033 Bob Grosso 10-Apr-1981  
Add lbr\$C\_maxkeylen, lhi\$L\_maxluhrec, lhi\$L\_numluhrec,  
lhi\$L\_libstatus and cre\$L\_luhmax.  
V02-004 RPG0025 Bob Grosso 20-Mar-1981  
Add lbr\$C\_maxidxrd  
V02-003 RPG0016 Bob Grosso 25-Feb-1981  
Rename lbr\$C\_mtcbufsiz to lbr\$C\_putbufsiz  
V02-002 RPG0012 Bob Grosso 19-Jan-1981  
Add lbr\$flush operation codes, and sizes for the buffers to  
empty the cache.  
V02-001 BLS0029 Benn Schreiber 22-Dec-1980  
Add shareable image symbol table type.

{ Librarian control table

module \$LBRCTLTBL;

aggregate LBRCTLTBL structure prefix LBR\$;  
ID byte unsigned; /\* Control table ID  
constant CTLTBLID equals 203 prefix LBR tag \$C; /\* Ident for control table  
TBLSIZ byte unsigned; /\* Control table size  
TYPE byte unsigned; /\* Type of library opened  
FUNC byte unsigned; /\* Operation (function) requested  
FILL 1 byte dimension 2 fill prefix LBRCTLTBL tag \$\$; /\* Reserved extra bytes  
USRFLG OVERLAY union;  
  USRFLG longword unsigned; /\* Flags longword  
  USRFLG BITS structure;  
    LOCATE bitfield mask; /\* Use "locate" rather than "move" mode  
    OPEN bitfield mask; /\* Library open  
  end USRFLG BITS;  
end USRFLG\_OVERLAY;  
HDRPTR longword unsigned; /\* Pointer to in-core header  
CTXPTR longword unsigned; /\* Pointer to context control block  
CURIDX longword unsigned; /\* Number of current index  
USRNAM longword unsigned; /\* Pointer to user NAM block  
OLDHDRPTR longword unsigned; /\* Pointer to unmodified in-core header block  
constant "LENGTH" equals . prefix LBR\$ tag K;  
constant "LENGTH" equals . prefix LBR\$ tag C;

end LBRCTLTBL;

end\_module \$LBRCTLTBL;

module \$MHDEF;

/\*  
/\* Module header  
\*/

```

aggregate MHDDEF structure prefix MHDS;
    LBRFLAG byte unsigned;                      /* Librarian-controlled flag byte
    ID byte unsigned;                          /* Ident
    constant MHDID equals 173 prefix MHD tag $C; /* Value that must be in the ident
    FILL 1 word fill prefix MHDDEF tag $$;      /* Reserved word
    REFCNT longword unsigned;                   /* Reference count
    constant REFLNG equals . prefix MHDS tag K; /* Length of record to end of ref count
    constant REFLNG equals . prefix MHDS tag C; /* Length of record to end of ref count
    constant INSTIME equals . prefix MHDS tag K; /* Label for start of insert time
    constant INSTIME equals . prefix MHDS tag C; /* Label for start of insert time
    DATIM longword unsigned;                    /* Date/time inserted
    FILL 2 OVERLAY union;
        FILL 2 longword fill prefix MHDDEF tag $$; /* ...
        constant USRDAT equals . prefix MHDS tag K; /* Start of user additional header data
        constant USRDAT equals . prefix MHDS tag C; /* Start of user additional header data
    FILL 2 FIELDS structure;
        FILL 3 byte dimension 4 fill prefix MHDDEF tag $$;
        USRDAT character length 0 tag B;          /* Start of user additional header data
        constant MHDLEN equals . prefix MHDS tag K; /* Length of fixed part of MHD
        constant MHDLEN equals . prefix MHDS tag C; /* Length of fixed part of MHD
    end FILL 2 FIELDS;
end FILL 2 OVERLAY;
OBJSTAT OVERLAY union;
    OBJSTAT byte unsigned;                      /* Status of object module
    OBJSTAT BITS structure;
        SELSRC bitfield mask;                  /* Selective search
        OBJTIR bitfield mask;                  /* Module contains TIR records
    end OBJSTAT BITS;
end OBJSTAT OVERLAY;
OBJIDLNG OVERLAY union;
    OBJIDLNG byte unsigned;                   /* Length of ident
    OBJIDLNG_FIELDS structure;
        FILL 4 byte fill prefix MHDDEF tag $$;
        OBJIDENT character length 0 tag T;       /* Object module ident
        constant OBJIDENT equals . prefix MHDS tag K;/*
        constant OBJIDENT equals . prefix MHDS tag C;/*
    end OBJIDLNG FIELDS;
end OBJIDLNG_OVERLAY;
end MHDDEF;
end_module $MHDDEF;

module $SHLPDEF;

/*
/* Data structures for help processing
*/

```

```

aggregate HLPDEF union prefix HLPS;
    HLPDEF BITS structure;
        PROMPT bitfield mask;                /* Prompting enabled
        PROCESS bitfield mask;              /* Process logical name table searches enabled

```

```

GROUP bitfield mask;
SYSTEM bitfield mask;
LIBLIST bitfield mask;
HELP bitfield mask;
SPARE1 bitfield mask;
SPARE2 bitfield mask;

PAGE bitfield mask;
OUTPUT bitfield mask;
LIBRARY bitfield mask;
ALL bitfield mask;
PAGEDEF bitfield mask;
PMPTDEF bitfield mask;
NOTTERM bitfield mask;
end HLPDEF_BITS;
end HLPDEF;

aggregate HLPDEF1 structure prefix HLP$;
DESC longword unsigned;
FLAGS OVERLAY union;
FLAGS longword unsigned;
FLAGS BITS structure;
NOHLPTXT bitfield mask;
KEYNAMLIN bitfield mask;
OTHERINFO bitfield mask;
end FLAGS BITS;
end FLAGS_OVERLAY;
DATA longword unsigned;
LEVEL longword unsigned;
end HLPDEF1;

end_module $HLPDEF;

module $LBRDEF;

/*
/* Types of libraries
*/

constant TYP_UNK      equals 0  prefix LBR tag $C; /* Define the library types
constant TYP_OBJ       equals 1  prefix LBR tag $C; /* Unknown/unspecified library type
constant TYP_MLB       equals 2  prefix LBR tag $C; /* Object/shareable image library
constant TYP_HLP       equals 3  prefix LBR tag $C; /* Macro library
constant TYP_TXT       equals 4  prefix LBR tag $C; /* Help file library
constant TYP_SHSTB     equals 5  prefix LBR tag $C; /* TEXT library
constant TYP_DECMX     equals 5  prefix LBR tag $C; /* Shareable image symbol library
constant TYP_RDEC       equals 127 prefix LBR tag $C; /* Maximum Digital library type defined
constant TYP_USRLW     equals 128 prefix LBR tag $C; /* Types between DECMX and RDEC are
constant TYP_USRHI     equals 255 prefix LBR tag $C; /* reserved to Digital
                                                       /* User library types range from 128
                                                       /* to 255.

/*
/* Function codes for lbr$flush
*/

```

```

constant FLUSHDATA      equals 1  prefix LBR tag $C; /* Flush data blocks from cache
constant FLUSHALL       equals 0  prefix LBR tag $C; /* Flush data blocks, then index blocks

/*
/* Librarian fixed parameters
*/
constant MAXRECSIZ      equals 2048  prefix LBR tag $C; /* Maximum record size allowed
constant PAGESIZE        equals 512   prefix LBR tag $C; /* Size of memory page
constant HASHSIZE        equals 512   prefix LBR tag $C; /* Size of hash table ** Must be power of 2 **
constant TEXTPAGE        equals 508   prefix LBR tag $C; /* No. of useable bytes on a text page
constant DEXTQ equals 50  prefix LBR tag $C; /* Library default extend quantity
constant MAXCTL equals 16  prefix LBR tag $C; /* Maximum number of open libraries
constant MAXHDRSIZ       equals 128   prefix LBR tag $C; /* Maximum length of module header
/* (max user length is:
/*   lbr$C_maxhdrsiz-mhd$C_length)
constant DEFENTALL      equals 300   prefix LBR tag $C; /* Number of entries to allocate by default
constant RETRYOPEN       equals 30    prefix LBR tag $C; /* Number of times to retry open on RMSS_FLK
constant RETRYWAIT       equals 1     prefix LBR tag $C; /* Number of seconds to wait between retries
constant MINREAD         equals 2     prefix LBR tag $C; /* Minimum number of blocks to read
constant MAXREAD         equals 50    prefix LBR tag $C; /* Max blocks can ever read
constant MEMXTRA          equals 50    prefix LBR tag $C; /* Number blocks to expand region by above and beyond lbr$gl_maxread
constant PUTBUFSIZ       equals 30    prefix LBR tag $C; /* Block size of VM empty cache buffer
constant FLSHBFPSIZ      equals 1     prefix LBR tag $C; /* Block size of stack mt cache buffer
constant MAXIDXRD        equals 20    prefix LBR tag $C; /* Maximum blocks in one index read
constant MAXKEYLEN       equals 128   prefix LBR tag $C; /* Maximum length of an ASCII keyword, at most N, where
/* 3*(N+7) < or = 506
constant MAXLUHREC        equals 32768 prefix LBR tag $C; /* maximum library update history record length

```

```

/*
/* LBR$INI_CONTROL argument list
*/

```

```

aggregate LBRDEF structure prefix LBRS;
  FILL_1 longword fill prefix LBRDEF tag $$;           /* Argument count
  IC_CTLTBL longword unsigned;                         /* Control index address
  IC_FUNC longword unsigned;                           /* Function
  constant CREATE      equals 0  prefix LBR tag $C;    /* Create a new library
  constant READ        equals 1  prefix LBR tag $C;    /* Read an existing library
  constant UPDATE      equals 2  prefix LBR tag $C;    /* Update an existing library
  constant MAXFUNC     equals 2  prefix LBR tag $C;    /* Maximum legal function
  IC_TYPE longword unsigned;                           /* Type of library expected to open

```

```

/*
/* LBR$OPEN argument list
*/

```

```
end LBRDEF;
```

```

aggregate LBRDEF1 structure prefix LBRS;
  FILL_2 longword fill prefix LBRDEF tag $$;           /* Argument count
  OP_CTLTBL longword unsigned;                         /* Control index address
  OP_FNS longword unsigned;                           /* Address of string descriptor for filename
  OP_CREOPT longword unsigned;                        /* Address of create options array
  OP_DNS longword unsigned;                           /* Address of descriptor for default name string
  OP_RLFNA longword unsigned;                         /* Address of NAM block for related file

```

```
OP_RNS longword unsigned;           /* Address of descriptor for related filename string
OP_RNSLEN longword unsigned;        /* Address of longword to store resultant filename string length

/*
/* LBR$CLOSE argument list
/*
end LBRDEF1;

aggregate LBRDEF2 structure prefix LBR$;
    FILL_3 longword fill prefix LBRDEF tag $$;      /* Argument count
    CL_CTLTBL longword unsigned;                   /* Control index address

/*
/* LBR$GET_HEADER argument list
/*
end LBRDEF2;

aggregate LBRDEF3 structure prefix LBR$;
    FILL_4 longword fill prefix LBRDEF tag $$;      /* Argument count
    GH_CTLTBL longword unsigned;                   /* Address of Control index
    GH_RETRY longword unsigned;                    /* Address of 128-longword array for return info

/*
/* LBR$SET_INDEX argument list
/*
end LBRDEF3;

aggregate LBRDEF4 structure prefix LBR$;
    FILL_5 longword fill prefix LBRDEF tag $$;      /* Argument count
    SI_CTLTBL longword unsigned;                   /* Control index address
    SI_IDXNUM longword unsigned;                  /* Address of index number

/*
/* LBR$LOOKUP_KEY argument list
/*
end LBRDEF4;

aggregate LBRDEF5 structure prefix LBR$;
    FILL_6 longword fill prefix LBRDEF tag $$;      /* Argument count
    LK_CTLTBL longword unsigned;                   /* Control index address
    LK_KEYNAM longword unsigned;                  /* Address of string descriptor or binary value
    LK_TXTRFA longword unsigned;                  /* Address of quadword to return RFA if found

/*
/* LBR$INSERT_KEY argument list
/*
end LBRDEF5;

aggregate LBRDEF6 structure prefix LBR$;
    FILL_7 longword fill prefix LBRDEF tag $$;      /* Argument count
    IK_CTLTBL longword unsigned;                   /* Control index address
```

```

IK_KEYNAM longword unsigned;          /* Address of string descriptor or binary value
IK_TXTRFA longword unsigned;         /* Address of RFA of text

/*
/* LBR$REPLACE_MOD argument list
/*
/*      F      ,L,1
/*      F      RM_CTLTBL,L    /* Argument count
/*      F      RM_KEYNAM,L   /* Control index address
/*      F      RK_TXTRFA,L   /* Address of string descriptor or binary value
/*      P      1              /* RFA of new text

/*
/* LBR$REPLACE_KEY argument list
/*
end LBRDEF6;

aggregate LBRDEF7 structure prefix LBR$;
FILL_8 longword fill prefix LBRDEF tag $$;    /* Argument count
RK_CTLTBL longword unsigned;                  /* Control index address
RK_KEYNAM longword unsigned;                  /* Address of string descriptor or binary value
RK_OLDRFA longword unsigned;                 /* Address of RFA of old text
RK_NEWRFA longword unsigned;                 /* Address of RFA of new text
/*
/* LBR$DELETE_KEY argument list
/*
end LBRDEF7;

aggregate LBRDEF8 structure prefix LBR$;
FILL_9 longword fill prefix LBRDEF tag $$;    /* Argument count
DK_CTLTBL longword unsigned;                  /* Control index address
DK_KEYNAM longword unsigned;                  /* Address of string descriptor or binary value

/*
/* LBR$DELETE_DATA argument list
/*
end LBRDEF8;

aggregate LBRDEF9 structure prefix LBR$;
FILL_10 longword fill prefix LBRDEF tag $$;   /* Argument count
DD_CTLTBL longword unsigned;                  /* Control index address
DD_TXTRFA longword unsigned;                 /* Address of RFA to delete from

/*
/* LBR$GET_RECORD argument list
/*
end LBRDEF9;

aggregate LBRDEF10 structure prefix LBR$;
FILL_11 longword fill prefix LBRDEF tag $$;   /* Argument count
GR_CTLTBL longword unsigned;                  /* Control index address
GR_BUFDIS longword unsigned;                 /* Address of descriptor of buffer

```

```
GR_BUflen longword unsigned;           /* Address of longword to return record size
/*
/* LBR$PUT_RECORD argument list
*/
end LBRDEF10;

aggregate LBRDEF11 structure prefix LBR$;
    FILL 12 longword fill prefix LBRDEF tag $$;      /* Argument count
    PR_CTLTBL longword unsigned;                     /* Control index address
    PR_BUFDL longword unsigned;                      /* Address of descriptor of buffer to output
    PR_TXTRFA longword unsigned;                     /* Address of quadword to return RFA
                                                /* of text record

/*
/* LBR$PUT_END argument list
*/
end LBRDEF11;

aggregate LBRDEF12 structure prefix LBR$;
    FILL 13 longword fill prefix LBRDEF tag $$;      /* Argument count
    PE_CTLTBL longword unsigned;                     /* Control index address

/*
/* LBR$SEARCH argument list
*/
end LBRDEF12;

aggregate LBRDEF13 structure prefix LBR$;
    FILL 14 longword fill prefix LBRDEF tag $$;      /* Argument count
    SR_CTLTBL longword unsigned;                     /* Control index address
    SR_IDXNUM longword unsigned;                    /* Address of index number
    SR_RFA longword unsigned;                       /* Address of RFA to search index for
    SR_USRTN longword unsigned;                     /* User routine to call on match

/*
/* Argument list for user routine called by LBR$SEARCH
*/
end LBRDEF13;

aggregate LBRDEF14 structure prefix LBR$;
    FILL 15 longword fill prefix LBRDEF tag $$;      /* Argument count
    SU_KEYDES longword unsigned;                   /* Address of string descriptor or binary value
    SU_TXTRFA longword unsigned;                  /* Address of array containing rfa of module

/*
/* LBR$GET_INDEX argument list
*/
end LBRDEF14;

aggregate LBRDEF15 structure prefix LBR$;
```

```
FILL 16 longword fill prefix LBRDEF tag $$;      /* Argument count
GI_CTLTBL longword unsigned;                   /* Control index address
GI_IDXNUM longword unsigned;                   /* Index number
GI_USRTN longword unsigned;                   /* User routine to call for each entry
/*
/* Argument list for user routine called by LBR$GET_INDEX
*/
end LBRDEF15;

aggregate LBRDEF16 structure prefix LBR$;
FILL 17 longword fill prefix LBRDEF tag $$;      /* Argument count
GU_KEYADR longword unsigned;                   /* Address of descriptor or binary value
GU_TXTRFA longword unsigned;                   /* RFA of associated text
/*
/* LBR$ADD_UPDATE argument list
*/
end LBRDEF16;

aggregate LBRDEF17 structure prefix LBR$;
FILL 18 longword fill prefix LBRDEF tag $$;      /* Argument count
AU_CTLTBL longword unsigned;                   /* Control index address
AU_FLAGS longword unsigned;                   /* Flags
AU_KEYNAM longword unsigned;                   /* Address of string descriptor or binary value
constant ADDMOD      equals 1    prefix LBR tag $C; /* Types of operations logged
constant DELMOD      equals 2    prefix LBR tag $C; /* Add module
constant REPMOD      equals 3    prefix LBR tag $C; /* Delete module
                                         /* Replace module
/*
/* LBR$GET_UPDATES argument list
*/
end LBRDEF17;

aggregate LBRDEF18 structure prefix LBR$;
FILL 19 longword fill prefix LBRDEF tag $$;      /* Argument count
GU_CTLTBL longword unsigned;                   /* Control index address
GU_USRTN longword unsigned;                   /* User routine to call for each update
/*
/* Argument list for user routine called by LBR$GET_UPDATES
*/
end LBRDEF18;

aggregate LBRDEF19 structure prefix LBR$;
FILL 20 longword fill prefix LBRDEF tag $$;      /* Argument list
UU_UPDESC longword unsigned;                   /* String descriptor for history line
end LBRDEF19;
end_module $LBRDEF;
```

```
module $LHIDEF;
```

```
/*
 * Library header information array offsets
 */
```

```
aggregate LHIDEF structure prefix LHIS:
```

```
    TYPE longword unsigned;
    NINDEX longword unsigned;
    MAJORID longword unsigned;
    MINORID longword unsigned;
    LBRVER character length 32;
    CREDAT longword unsigned;
    FILL_1 longword fill prefix LHIDEF tag $$;
    UPDTIM longword unsigned;
    FILL_2 longword fill prefix LHIDEF tag $$;
    UPDHIS longword unsigned;
    FREEVBN longword unsigned;
    FREEBLK longword unsigned;
    NEXTRFA byte unsigned dimension 6;
    RFAXTR word unsigned;
    NEXTVBN longword unsigned;
    FREIDXBLK longword unsigned;
    FREEIDX longword unsigned;
    HIPREAL longword unsigned;
    IDXBLKS longword unsigned;
    IDCNT longword unsigned;
    MODCNT longword unsigned;
    MHDUSZ longword unsigned;
    MAXLUHREC longword unsigned;
    NUMLUHREC longword unsigned;
    LIBSTATUS longword unsigned;
end LHIDEF;
```

```
end_module $LHIDEF;
```

```
module $CREDEF;
```

```
/*
 * Create options table
 */
```

```
aggregate CREDEF structure prefix CRES;
```

```
    TYPE longword unsigned;
    KEYLEN longword unsigned;
    ALLOC longword unsigned;
    IDXMAX longword unsigned;
    UHDMAX longword unsigned;
    ENTALL longword unsigned;
    LUHMAX longword unsigned;
    VERTYP longword unsigned;
    /* Type of library
     * (library types defined in $LBRDEF)
     * Length of keys in library
     * Initial file allocation
     * Maximum number of indices
     * Size of additional module header data
     * Number of index entries to pre-allocate
     * Number of library update history records to store
     * Version type of library to create
```

```
constant VMSV2      equals 2  prefix CRE tag $C: /* VMS version V04-000 format
constant VMSV3      equals 3  prefix CRE tag $C: /* VMS version 3 format
IDXOPT OVERLAY union;
  IDXOPT longword unsigned;                      /* Index options
  IDXOPT BITS structure;
    NOCASECMP bitfield mask;                     /* Do not upper case the match key
    NOCASENTR bitfield mask;                     /* Do not upper case the index key when comparing with a match key
    UPCASNTRY bitfield mask;                     /* Upper case the index key when entering it into the library
  end IDXOPT BITS;
  constant HCPCASING     equals 6  prefix CRE tag $C; /* Treat upper casing as it is for HELP libs
  constant OBJCASING      equals 3  prefix CRE tag $C; /* Treat upper casing as it is for OBJECT libs
  constant MACTXTCAS      equals 0  prefix CRE tag $C; /* Treat upper casing as it is for MACRO and TEXT libs
end IDXOPT_OVERLAY;
FILL_1 longword dimension 11 fill prefix CREDEF tag $$; /* Reserved 11 longwords
constant "LENGTH" equals . prefix CRES tag K;          /*
constant "LENGTH" equals . prefix CRES tag C;          */

end CREDEF;
end_module $CREDEF;
```

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