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H 5
15-Sep-1984 23:28:23
15-Sep-1984 22:47:16

VAX-11 Bliss-32 V4.0-742
_S255\$DUA28:[LIBRTL.SRC]RTLLIB.REQ;1 Page 1
(1)

STR
1-0

Run-Time Library specific macros and symbols
File: RTLLIB.REQ, Edit: SBL1005

```
*****
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```

Author: Steven B. Lionel, 16-August-1982

1-001 - Original. SBL 16-August-1982
1-002 - Add LIBGETXXI.R32. SBL 14-Jan-1983
1-003 - Remove LIBGETXXI.R32. It has been replaced with LIBFMTDEF which
is in STARLET. SBL 11-Mar-1983
1-004 - Move LIBFMTDEF back here as it isn't needed in STARLET. SBL 25-May-1983
1-005 - Conditionally include LIBFMTDEF if it isn't already in STARLET.
This is a temporary measure. SBL 27-May-1983

--

+
This file is the master source for RTLLIB.L32.
It contains definitions for macros and symbols used internally to the
Run-Time Library. All symbols defined in RTLLIB must have an appropriate
facility prefix. Only non-language-specific facility definitions should
be included in RTLLIB.
-

SWITCHES ADDRESSING_MODE (EXTERNAL=GENERAL, NONEXTERNAL=WORD_RELATIVE);

LIBRARY 'RTLSTARLE'; ! SYS\$LIBRARY:STARLET.L32

+
Define linkages for LIB\$ routines.
-

REQUIRE 'RTLIN:LIBLNK';

I 5
15-Sep-1984 23:28:23
15-Sep-1984 22:46:26

VAX-11 Bliss-32 V4.0-742
_S255\$DUA28:[LIBRTL.SRC]LIBLNK.REQ;1 Page 2
(1)

STR
1-0

Run-Time Library LIB\$ routine linkages
File: LIBLNK.REQ, Edit: SBL1001

```
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*****
```

Author: Steven B. Lionel, 16-August-1982

1-001 - Original. SBL 16-August-1982

+ This file contains linkage definitions for LIB\$ procedures.
- The linkage name is the routine name suffixed with "\$LINKAGE".

```
LINKAGE
LIB$ANALYZE_SDESC_R2$LINKAGE = ! LIB$ANALYZE_SDESC_R2
JSB (
    REGISTER=0; ! Descriptor address
    REGISTER=1; ! Returned length word
    REGISTER=2; ! Returned string pointer
    NOTUSED (3,4,5,6,7,8,9,10,11),
LIB$SCOPY_DXDX6$LINKAGE = ! LIB$SCOPY_DXDX6
JSB (
    REGISTER=0; ! Address of source descriptor
    REGISTER=1; ! Address of destination descriptor
    NOPRESERVE (2,3,4,5,6) NOTUSED (7,8,9,10,11),
LIB$SCOPY_R_DX6$LINKAGE = ! LIB$SCOPY_R_DX6
JSB (
    REGISTER=0; ! Length (word) of source
    REGISTER=1; ! Address of source
    REGISTER=2; ! Address of destination descriptor
    NOPRESERVE (2,3,4,5,6) NOTUSED (7,8,9,10,11),
```


J 5
15-Sep-1984 23:28:23
15-Sep-1984 22:46:26

VAX-11 Bliss-32 V4.0-742
_S255\$DUA28:[LIBRTL.SRC]LIBLNK.REQ;1 Page 3
(1)

```
: R0112 0      LIB$SFREE1_DD6$LINKAGE =      ! LIB$SFREE1_DD6
: R0113 0      JSB (
: R0114 0          REGISTER=0):      ! Address of descriptor
: R0115 0          NOPRESERVE (2,3,4,5,6) NOTUSED (7,8,9,10,11),
: R0116 0
: R0117 0      LIB$SFREEN_DDR6$LINKAGE =      ! LIB$SFREEN_DDR6
: R0118 0      JSB (
: R0119 0          REGISTER=0,      ! Number of strings to deallocate
: R0120 0          REGISTER=1):      ! Address array of descriptors
: R0121 0          NOPRESERVE (2,3,4,5,6) NOTUSED (7,8,9,10,11),
: R0122 0
: R0123 0      LIB$SGET1_DD_R6$LINKAGE =      ! LIB$SGET1_DD_R6
: R0124 0      JSB (
: R0125 0          REGISTER=0,      ! Length (word) of string to allocate
: R0126 0          REGISTER=1):      ! Address of descriptor
: R0127 0          NOPRESERVE (2,3,4,5,6) NOTUSED (7,8,9,10,11);
: R0128 0
: R0129 0      ! End of file LIBLNK.REQ
```

STR
1-0

15^K-5^S Sep-1984 23:28:23
15-Sep-1984 22:47:16

VAX-11 Bliss-32 V4.0-742 Page 4
_S255\$DUA28:[LIBRTL.SRC]RTLLIB.REQ;1 (1)

STR
1-0

```

0130 0
0131 0
0132 0
0133 0
0134 0
0135 0

```


L 5
15-Sep-1984 23:28:23
15-Sep-1984 22:46:30

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBMACROS.REQ;1

Page 5
(1)

STR
1-0

R0136 0
R0137 0
R0138 0
R0139 0
R0140 0
R0141 0
R0142 0
R0143 0
R0144 0
R0145 0
R0146 0
R0147 0
R0148 0
R0149 0
R0150 0
R0151 0
R0152 0
R0153 0
R0154 0
R0155 0
R0156 0
R0157 0
R0158 0
R0159 0
R0160 0
R0161 0
R0162 0
R0163 0
R0164 0
R0165 0
R0166 0
R0167 0
R0168 0
R0169 0
R0170 0
R0171 0
R0172 0
R0173 0
R0174 0
R0175 0

Macros for the Run-Time Library LIB\$ facility
File: LIBMACROS.REQ, Edit: SBL1003

```
*****
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*
*****
```

Author: Steven B. Lionel, 16-August-1982

1-001 - Original. SBL 16-August-1982
1-002 - Add macros to read, write and copy with autoincrement.
SBL 12-Apr-1983
1-003 - Add \$LIB\$MOVQ. SBL 17-June-1983

+ This file contains macros which are available to any BLISS module that
REQUIRES LIBPROLOG.REQ. Macros in this file are useful to any LIB\$
module written in BLISS. All macros defined MUST have names that begin
with "\$LIB\$".
-

```

: R0176 0
: R0177 0
: R0178 0
: R0179 0
: R0180 0
: R0181 0
: R0182 0
: R0183 0
: R0184 0
: R0185 0
: R0186 0
: R0187 0
: R0188 0
: R0189 0
: R0190 0
: MR0191 0
: MR0192 0
: MR0193 0
: MR0194 0
: MR0195 0
: MR0196 0
: MR0197 0
: MR0198 0
: MR0199 0
: MR0200 0
: MR0201 0
: MR0202 0
: MR0203 0
: MR0204 0
: MR0205 0
: MR0206 0
: MR0207 0
: MR0208 0
: MR0209 0
: MR0210 0
: MR0211 0
: MR0212 0
: MR0213 0
: MR0214 0
: MR0215 0
: MR0216 0
: MR0217 0
: MR0218 0
: MR0219 0
: R0220 0

+ $LIB$VALIDATE_ARGCOUNT
Macro used to check that a LIB$ procedure was called with the correct
number of arguments. If the test fails, the procedure returns with the
failure status LIB$_WRONUMARG.
Format:
$LIB$VALIDATE_ARGCOUNT (lo, hi);
lo = Lowest number of arguments which are valid (0-255)
hi = Highest number of arguments which are valid (0-255)
-
MACRO $LIB$VALIDATE_ARGCOUNT (lo, hi) =
BEGIN
BUILTIN
ACTUALCOUNT;
EXTERNAL LITERAL
LIB$_WRONUMARG;

%IF lo NEQ hi
%THEN
%IF lo NEQ 0
%THEN
LOCAL
DIFF: BYTE;
DIFF = ACTUALCOUNT () - lo;
IF .DIFF GTRU (hi - lo)
THEN
RETURN LIB$_WRONUMARG;
%ELSE
IF ACTUALCOUNT () GTRU hi
THEN
RETURN LIB$_WRONUMARG;
%FI

%ELSE
IF ACTUALCOUNT () NEQU lo
THEN
RETURN LIB$_WRONUMARG;
%FI

END %;
```



```

R0221 0
R0222 0
R0223 0
R0224 0
R0225 0
R0226 0
R0227 0
R0228 0
R0229 0
R0230 0
R0231 0
R0232 0
R0233 0
R0234 0
R0235 0
R0236 0
MR0237 0
R0238 0
R0239 0
R0240 0
R0241 0
R0242 0
R0243 0
R0244 0
MR0245 0
MR0246 0
MR0247 0
MR0248 0
R0249 0
R0250 0
R0251 0
R0252 0

!+
! Macros to read, write and copy with autoincrement.
!-

MACRO
$LIB$RBYTE_A(P) = (P = .P+1; .(.P-1)<0,8>) %,
$LIB$RWORD_A(P) = (P = .P+2; .(.P-2)<0,16>) %,
$LIB$RLONG_A(P) = (P = .P+4; .(.P-4)<0,32>) %,

$LIB$WBYTE_A(P) = (P=.P+1; .P-1)<0,8> %,
$LIB$WORD_A(P) = (P=.P+2; .P-2)<0,16> %,
$LIB$WLONG_A(P) = (P=.P+4; .P-4)<0,32> %,

$LIB$COPY_BYTE_A (S,D) = ($LIB$WBYTE_A(D)=$LIB$RBYTE_A(S)) %,
$LIB$COPY_WORD_A (S,D) = ($LIB$WORD_A(D)=$LIB$RWORD_A(S)) %,
$LIB$COPY_LONG_A (S,D) = ($LIB$WLONG_A(D)=$LIB$RLONG_A(S)) %,
$LIB$COPY_QUAD_A (S,D) = ((.D)<0,32>=.(.S)<0,32>;
(.D+4)<0,32>=.(.S+4)<0,32>; D=.D+8; S=.S+8) %;

!+
! Macro to move a quadword with a MOVQ instruction.
!-

MACRO
$LIB$MOVQ (S,D) =
    BEGIN
    (D) = .(S);
    ((D)+4) = .((S)+4);
    END %;

! End of file LIBMACROS.REQ

```

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15-Sep-1984 23:28:23
15-Sep-1984 22:47:16

VAX-11 Bliss-32 V4.0-742
_S255\$DUA28:[LIBRTL.SRC]RTLLIB.REQ;1 Page 8 (1)

0253 0
0254 0
0255 0
0256 0
0257 0
L 0258 0
0259 0
0260 0

!+ Define item format codes for LIB\$GETxxI procedures.
!-

%IF NOT %DECLARED(LIB\$K_FMT_STRING)
%THEN
REQUIRE 'RTLML:LIBFMTDEF';

C 6
15-Sep-1984 23:28:23
15-Sep-1984 22:51:09

VAX-11 Bliss-32 V4.0-742
[LIBRTL.OBJ]LIBFMTDEF.REQ;1

Page 9
(1)

```
: R0261 0 : *****
: R0262 0 : Created 15-SEP-1984 22:48:43 by VAX-11 SDL V2.0 Source: 15-SEP-1984 22:46:21 $255$DUA28:[LIBRTL.SRC]LIBF
: R0263 0 : *****
: R0264 0 :
: R0265 0 :
: R0266 0 : *** MODULE $LIBFMTDEF ***
: R0267 0 : Item formatting codes used by LIB$FORMAT ITEM
: R0268 0 : literal LIB$K_FMT_STRING = 0; Value is a string
: R0269 0 : literal LIB$K_FMT_ASCIC = 1; Value is a counted string
: R0270 0 : literal LIB$K_FMT_HEXSTRING = 2; Value is a hex string of arbitrary length
: R0271 0 : literal LIB$K_FMT_PSTRING = 3; Value is a blank-padded string
: R0272 0 : Reserved for string expansion
: R0273 0 : literal LIB$K_FMT_BINARY = 8; Value is a longword integer
: R0274 0 : literal LIB$K_FMT_HEX = 9; Value is a hex-formatted integer
: R0275 0 : literal LIB$K_FMT_BOOLEAN = 10; Value is a bit; use boolean for string
: R0276 0 : literal LIB$K_FMT_DATE = 11; Value is a date
: R0277 0 : literal LIB$K_FMT_PRIVILEGE = 12; Value is a privilege mask
: R0278 0 : literal LIB$K_FMT_UIC = 13; Value is a UIC
: R0279 0 : literal LIB$K_FMT_PROT = 14; Value is a protection specifier
: R0280 0 : literal LIB$K_FMT_VPROT = 15; Value is a volume protection specifier
: R0281 0 : literal LIB$K_FMT_ACP = 16; Value is an ACP type
: R0282 0 : literal LIB$K_FMT_STATE = 17; Value is a process state
: R0283 0 : literal LIB$K_FMT_MODE = 18; Value is a process mode
: R0284 0 : literal LIB$K_FMT_MIN = 0;
: R0285 0 : literal LIB$K_FMT_MAX = 18;
: R0286 0 : literal LIB$K_FMT_MAXSTRING = 3;
```

D 6
15-Sep-1984 23:28:23
15-Sep-1984 22:47:16

VAX-11 Bliss-32 V4.0-742
_\$255\$DUA28:[LIBRTL.SRC]RTLLIB.REQ;1 Page 10
(1)

: 0287 0 %FI
: 0288 0
: 0289 0 ! End of file RTLLIB.REQ

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/LIBRARY=LIB\$:/LIST=LISS\$:/SOURCE=REQUIRE SRC\$:RTLLIB
: Run Time: 00:03.9
: Elapsed Time: 00:05.8
: Lines/CPU Min: 4434
: Lexemes/CPU-Min: 14961
: Memory Used: 32 pages
: Library Precompilation Complete

0213 AH-BT13A-SE
VAX/VMS V4.0

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