


```

BBBBBBBBB      AAAAAA      SSSSSSSS      LL      EEEEEEEEEEE      FFFFFFFFFFF      TTTTTTTTTTT
BBBBBBBBB      AAAAAA      SSSSSSSS      LL      EEEEEEEEEEE      FFFFFFFFFFF      TTTTTTTTTTT
BB      BB      AA      AA      SS      LL      EE      FF      TT
BB      BB      AA      AA      SS      LL      EE      FF      TT
BB      BB      AA      AA      SS      LL      EE      FF      TT
BB      BB      AA      AA      SS      LL      EE      FF      TT
BBBBBBBBB      AA      AA      SSSSSS      LL      EEEEEEEEE     FFFFFFFF      TT
BBBBBBBBB      AA      AA      SSSSSS      LL      EEEEEEEEE     FFFFFFFF      TT
BB      BB      AAAAAAAAAA      SS      LL      EE      FF      TT
BB      BB      AAAAAAAAAA      SS      LL      EE      FF      TT
BB      BB      AA      AA      SS      LL      EE      FF      TT
BB      BB      AA      AA      SS      LL      EE      FF      TT
BBBBBBBBB      AA      AA      SSSSSSSS      LLLLLLLLLL      EEEEEEEEEEE      FF      TT
BBBBBBBBB      AA      AA      SSSSSSSS      LLLLLLLLLL      EEEEEEEEEEE      FF      TT

```

```

LL      I I I I I      SSSSSSSS
LL      I I I I I      SSSSSSSS
LL      I I      SS
LL      I I      SS
LL      I I      SS
LL      I I      SS
LL      I I      SSSSSS
LL      I I      SSSSSS
LL      I I      SS
LL      I I      SS
LL      I I      SS
LL      I I      SS
LLLLLLLLLL      I I I I I      SSSSSSSS
LLLLLLLLLL      I I I I I      SSSSSSSS

```

```

1 0001 0 MODULE BASSLEFT (
2 0002 0 IDENT = '1-005'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: String support library
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module extracts a substring according to the
36 0036 1 BASIC-PLUS-2 syntax. It finds the substring of a main string
37 0037 1 starting at the left end of the string (character position 1)
38 0038 1 and continues through the nth character of the string. This
39 0039 1 substring is copied to the destination string.
40 0040 1
41 0041 1 ENVIRONMENT: User mode, AST level or not or mixed
42 0042 1
43 0043 1 AUTHOR: R. Will, CREATION DATE: 19-Feb-79
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 R. Will, 19-Feb-79: VERSION 01
48 0048 1 01 - original
49 0049 1 02 - change linkage and call to COPY routine. 13-Mar-79 RW
50 0050 1 1-003 - Change string linkages to start with STR$. JBS 04-JUN-1979
51 0051 1 1-004 - Change call to STR$COPY. JBS 16-JUL-1979
52 0052 1 1-005 - CALL STR$LEFT. DELETE THIS MODULE WHEN COMPILER CHANGES. RW 31-OCT-79
53 0053 1 --
54 0054 1
55 0055 1 !<BLF/PAGE>
    
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```

: 57      0056 1  |
: 58      0057 1  | SWITCHES:
: 59      0058 1  |
: 60      0059 1  |
: 61      0060 1  | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 62      0061 1  |
: 63      0062 1  |
: 64      0063 1  | LINKAGES:
: 65      0064 1  |
: 66      0065 1  |
: 67      0066 1  |
: 68      0067 1  | TABLE OF CONTENTS:
: 69      0068 1  |
: 70      0069 1  |
: 71      0070 1  | FORWARD ROUTINE
: 72      0071 1  |     BASSLEFT : NOVALUE;                ! Find the LEFT of a string
: 73      0072 1  |
: 74      0073 1  |
: 75      0074 1  | INCLUDE FILES:
: 76      0075 1  |
: 77      0076 1  |
: 78      0077 1  | REQUIRE 'RTLIN:RTLPSECT';            ! Declare PSECTS code
: 79      0172 1  |
: 80      0173 1  |
: 81      0174 1  | MACROS:
: 82      0175 1  |
: 83      0176 1  |
: 84      0177 1  | EQUATED SYMBOLS:
: 85      0178 1  |
: 86      0179 1  |
: 87      0180 1  | PSECT DECLARATIONS
: 88      0181 1  |
: 89      0182 1  | DECLARE_PSECTS (BAS);
: 90      0183 1  |
: 91      0184 1  | OWN STORAGE:
: 92      0185 1  |
: 93      0186 1  |
: 94      0187 1  | EXTERNAL REFERENCES:
: 95      0188 1  |
: 96      0189 1  |
: 97      0190 1  | EXTERNAL ROUTINE
: 98      0191 1  |     STR$LEFT;                ! Routine to do the copy
: 99      0192 1  |

```

```

: 101      0193 1 GLOBAL ROUTINE BASSLEFT (DEST_DESC,      ! Pointer to destination descriptor
: 102      0194 1      SRC_DESC,                          ! Pointer to source descriptor
: 103      0195 1      CHAR_POS) : NOVALUE =              ! Last character to be included
: 104      0196 1
: 105      0197 1
: 106      0198 1  !++
: 107      0199 1  FUNCTIONAL DESCRIPTION:
: 108      0200 1      This routine extracts the characters starting at the leftmost
: 109      0201 1      character (character position 1) and continuing through the
: 110      0202 1      character position specified by the input and copies that substring
: 111      0203 1      to the destination string (by JSB to STR$$COPY_R_R8) according
: 112      0204 1      to the syntax of the class of the destination string.
: 113      0205 1      If the input character position is > the length of the input string,
: 114      0206 1      then the length of the input string is used. If the input character
: 115      0207 1      position is < 1, the destination becomes a null string.
: 116      0208 1
: 117      0209 1  FORMAL PARAMETERS:
: 118      0210 1
: 119      0211 1      DEST_DESC.wt.dx      pointer to destination string descriptor
: 120      0212 1      SRC_DESC.rt.dx       pointer to source string descriptor
: 121      0213 1      CHAR_POS.rw.v       value of last character position to include
: 122      0214 1
: 123      0215 1  IMPLICIT INPUTS:
: 124      0216 1
: 125      0217 1      NONE
: 126      0218 1
: 127      0219 1  IMPLICIT OUTPUTS:
: 128      0220 1
: 129      0221 1      NONE
: 130      0222 1
: 131      0223 1  ROUTINE VALUE:
: 132      0224 1  COMPLETION CODES:
: 133      0225 1
: 134      0226 1      NONE
: 135      0227 1
: 136      0228 1  SIDE EFFECTS:
: 137      0229 1
: 138      0230 1      NONE
: 139      0231 1
: 140      0232 1  --
: 141      0233 1
: 142      0234 2  BEGIN
: 143      0235 2
: 144      0236 2  MAP
: 145      0237 2      DEST_DESC : REF BLOCK [8,BYTE];
: 146      0238 2
: 147      0239 2  MAP
: 148      0240 2      SRC_DESC : REF BLOCK [8,BYTE];
: 149      0241 2
: 150      0242 2  STR$LEFT (DEST_DESC [0,0,0,0], SRC_DESC [0,0,0,0], CHAR_POS);
: 151      0243 2  RETURN;
: 152      0244 1  END;                                !End of BASSLEFT

```

.TITLE BASSLEFT
.IDENT \1-005\

BASSLEFT
1-005

M 12
16-Sep-1984 00:41:59 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:55:13 [BASRTL.SRC]BASLEFT.B32;1

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(3)

.EXTRN STR\$LEFT

.PSECT _BAS\$CODE,NOWRT, SHR, PIC,2

.ENTRY BASSLEFT, Save nothing

PUSHAB CHAR_POS

MOVQ DEST_DESC, -(SP)

CALLS #3, STR\$LEFT

RET

: 0193
: 0242
: :
: 0244

00000000G 7E 00
0C AC 0000 0000
04 AC 9F 00002
03 FB 00009
04 00010

: Routine Size: 17 bytes, Routine Base: _BAS\$CODE + 0000

: 153 0245 1
: 154 0246 1 END
: 155 0247 1
: 156 0248 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
_BAS\$CODE	17	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:BASLEFT/OBJ=OBJ\$:BASLEFT MSRC\$:BASLEFT/UPDATE=(ENH\$:BASLEFT)

: Size: 17 code + 0 data bytes
: Run Time: 00:01.7
: Elapsed Time: 00:03.5
: Lines/CPU Min: 8752
: Lexemes/CPU-Min: 23294
: Memory Used: 18 pages
: Compilation Complete

