


```

BBBBBBBB      AAAAAA      SSSSSSSS      IIIIII      NN      NN      SSSSSSSS      TTTTTTTTTT      RRRRRRRR
BBBBBBBB      AAAAAA      SSSSSSSS      IIIIII      NN      NN      SSSSSSSS      TTTTTTTTTT      RRRRRRRR
BB      BB      AA      AA      SS      II      NN      NN      SS      TT      RR      RR
BB      BB      AA      AA      SS      II      NN      NN      SS      TT      RR      RR
BB      BB      AA      AA      SS      II      NNNN      NN      SS      TT      RR      RR
BBBBBBBB      AA      AA      SSSSSS      II      NN      NN      SSSSSS      TT      RRRRRRRR
BBBBBBBB      AA      AA      SSSSSS      II      NN      NN      SSSSSS      TT      RRRRRRRR
BB      BB      AAAAAAAAAA      SS      II      NN      NNNN      SS      TT      RR      RR
BB      BB      AAAAAAAAAA      SS      II      NN      NNNN      SS      TT      RR      RR
BB      BB      AA      AA      SS      II      NN      NN      SS      TT      RR      RR
BB      BB      AA      AA      SS      II      NN      NN      SS      TT      RR      RR
BBBBBBBB      AA      AA      SSSSSSSS      IIIIII      NN      NN      SSSSSSSS      TT      RR      RR
BBBBBBBB      AA      AA      SSSSSSSS      IIIIII      NN      NN      SSSSSSSS      TT      RR      RR

```

```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 MODULE BASSINSTR (                               ! Find the position of a substring
2 0002 0 IDENT = '1-005'                                   ! File: BASINSTR.B32
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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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: This module takes 2 input strings of any class and dtype
34 0034 1 and returns the position of the substring in the main string
35 0035 1 starting at an input position
36 0036 1
37 0037 1 ENVIRONMENT: User mode, AST level or not or mixed
38 0038 1
39 0039 1 AUTHOR: R. Will, CREATION DATE: 10-Mar-79
40 0040 1
41 0041 1 MODIFIED BY:
42 0042 1
43 0043 1 R. Will, 10-Mar-79 : VERSION 01
44 0044 1 01 - original
45 0045 1 1-002 - String cleanup. Call STR$POS. RW 20-OCT-79
46 0046 1 1-003 - Correct a typo in the linkage specifications.
47 0047 1 JBS 02-NOV-1979
48 0048 1 1-004 - Use JSB entry point of STR_POSITION. RW 2-Nov-79
49 0049 1 1-005 - Use CALL entry point of STR_POSITION. RW 15-NOV-79
50 0050 1 --
51 0051 1
52 0052 1 !<BLF/PAGE>
    
```

```
54 0053 1 |  
55 0054 1 | SWITCHES:  
56 0055 1 |  
57 0056 1 |  
58 0057 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
59 0058 1 |  
60 0059 1 |  
61 0060 1 | LINKAGES: NONE  
62 0061 1 |  
63 0062 1 |  
64 0063 1 |  
65 0064 1 | TABLE OF CONTENTS:  
66 0065 1 |  
67 0066 1 |  
68 0067 1 FORWARD ROUTINE  
69 0068 1 BASSINSTR; ! find substring position  
70 0069 1 |  
71 0070 1 |  
72 0071 1 | INCLUDE FILES:  
73 0072 1 |  
74 0073 1 |  
75 0074 1 REQUIRE 'RTLIN:RTLPSECT'; ! Declare PSECTS code  
76 0169 1 |  
77 0170 1 |  
78 0171 1 | MACROS: NONE  
79 0172 1 |  
80 0173 1 |  
81 0174 1 | EQUATED SYMBOLS: NONE  
82 0175 1 |  
83 0176 1 |  
84 0177 1 | PSECT DECLARATIONS  
85 0178 1 |  
86 0179 1 |  
87 0180 1 DECLARE_PSECTS (BAS);  
88 0181 1 |  
89 0182 1 |  
90 0183 1 | OWN STORAGE: NONE  
91 0184 1 |  
92 0185 1 |  
93 0186 1 | EXTERNAL REFERENCES:  
94 0187 1 |  
95 0188 1 |  
96 0189 1 EXTERNAL ROUTINE  
97 0190 1 STR$POSITION; ! routine to do the actual search  
98 0191 1 |
```

```

: 100 0192 1 GLOBAL ROUTINE BASSINSTR (
: 101 0193 1     START_POS,
: 102 0194 1     SRC_DESC,
: 103 0195 1     SUB_DESC
: 104 0196 1 ) : =
: 105 0197 1
: 106 0198 1
: 107 0199 1  +-+
: 108 0200 1  FUNCTIONAL DESCRIPTION:
: 109 0201 1      This routine takes two source strings of any
: 110 0202 1      dtype and class and finds the position of the substring in the
: 111 0203 1      source string starting at the input starting position. The routine
: 112 0204 1      returns the position of the substring in the source string. This
: 113 0205 1      routine merely calls BASSPOS which does the exact same thing with
: 114 0206 1      the parameters in a different order
: 115 0207 1
: 116 0208 1  FORMAL PARAMETERS:
: 117 0209 1
: 118 0210 1      START_POS.rl.v      value of position in source to begin search
: 119 0211 1      SRC_DESC.rt.dx      pointer to descriptor of string to be searched
: 120 0212 1      SUB_DESC.rt.dx      pointer to descriptor of string to find
: 121 0213 1
: 122 0214 1  IMPLICIT INPUTS:
: 123 0215 1
: 124 0216 1      NONE
: 125 0217 1
: 126 0218 1  IMPLICIT OUTPUTS:
: 127 0219 1
: 128 0220 1      NONE
: 129 0221 1
: 130 0222 1  ROUTINE VALUE:
: 131 0223 1
: 132 0224 1      FIND_POS.wlu.v      value of start of substring in source string
: 133 0225 1
: 134 0226 1  SIDE EFFECTS:
: 135 0227 1
: 136 0228 1      This routine calls STR$POSITION and therefore may signal any of
: 137 0229 1      its errors or have any of its side effects, including locking
: 138 0230 1      a string from being written for a short period.
: 139 0231 1
: 140 0232 1  --
: 141 0233 1
: 142 0234 2  BEGIN
: 143 0235 2  RETURN STR$POSITION (.SRC_DESC, .SUB_DESC, START_POS);
: 144 0236 1  END;
!End of BASSINSTR

```

```

.TITLE BASSINSTR
.IDENT \1-005\

.EXTRN STR$POSITION

.PSECT _BASSCODE,NOWRT, SHR, PIC,2

.ENTRY BASSINSTR, Save nothing
PUSHAB START_POS
MOVQ SRC_DESC, -(SP)

```

```

0000 0000
04 AC 9F 0002
7E 08 AC 7D 0005

```

```

: 0192
: 0235
:

```

BASSINSTR
1-005

L 7
16-Sep-1984 00:39:12 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:55:09 [BASRTL.SRC]BASINSTR.B32;1

Page 4
(3)

00000000G 00

03 FB 00009
04 00010

CALLS #3, STR\$POSITION
RET

: 0236

: Routine Size: 17 bytes, Routine Base: _BASSCODE + 0000

: 145 0237 1
: 146 0238 1 END
: 147 0239 1
: 148 0240 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
_BASSCODE	17	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

COMMAND QUALIFIERS

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

: Size: 17 code + 0 data bytes
: Run Time: 00:01.6
: Elapsed Time: 00:03.4
: Lines/CPU Min: 9056
: Lexemes/CPU-Min: 20981
: Memory Used: 17 pages
: Compilation Complete

