


```

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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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: 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 | FUNCTIONAL DESCRIPTION:
: 108      0200 1 |
: 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;

```

```

.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 00002
7E 08 AC 7D 00005

```

```

: 0192
: 0235
:

```

BASSINSTR
1-005

L 7
16-Sep-1984 00:39:12
14-Sep-1984 11:55:09

VAX-11 Bliss-32 V4.0-742
[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=LIS\$: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

