

BBBBBBBBBBBB	AAAAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTT	LLL
BBBBBBBBBBBB	AAAAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTT	LLL
BBBBBBBBBBBB	AAAAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBBBBBBBBBBB	AAAAA	SSSSSSSS	RRRRRRRRRR	TTT	LLL
BBBBBBBBBBBB	AAAAA	SSSSSSSS	RRRRRRRRRR	TTT	LLL
BBBBBBBBBBBB	AAAAA	SSSSSSSS	RRRRRRRRRR	TTT	LLL
BBB	BBB AAAAAAAAAAAAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAAAAAAAAAAAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAAAAAAAAAAAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB AAA AAA	SSS	RRR RRR	TTT	LLL
BBBBBBBBBBBB	AAAAA	SSSSSSSS	RRR RRR	TTT	LLLLLLLLLLLLLLLL
BBBBBBBBBBBB	AAAAA	SSSSSSSS	RRR RRR	TTT	LLLLLLLLLLLLLLLL
BBBBBBB	AAAAA	SSSSSSSS	RRR RRR	TTT	LLLLLLLLLLLLLLLL

```

BBBBBBBB      AAAAAA      SSSSSSSS      CCCCCCCC      HH      HH      RRRRRRRR
BBBBBBBB      AAAAAA      SSSSSSSS      CCCCCCCC      HH      HH      RRRRRRRR
BB      BB      AA      AA      SS      CC      HH      HH      RR      RR
BB      BB      AA      AA      SS      CC      HH      HH      RR      RR
BB      BB      AA      AA      SS      CC      HH      HH      RR      RR
BB      BB      AA      AA      SS      CC      HH      HH      RR      RR
BBBBBBBB      AA      AA      SSSSSS      CC      HHHHHHHHHH      RRRRRRRR
BBBBBBBB      AA      AA      SSSSSS      CC      HHHHHHHHHH      RRRRRRRR
BB      BB      AAAAAAAAAA      SS      CC      HH      HH      RR      RR
BB      BB      AAAAAAAAAA      SS      CC      HH      HH      RR      RR
BB      BB      AA      AA      SS      CC      HH      HH      RR      RR
BB      BB      AA      AA      SS      CC      HH      HH      RR      RR
BBBBBBBB      AA      AA      SSSSSSSS      CCCCCCCC      HH      HH      RR      RR
BBBBBBBB      AA      AA      SSSSSSSS      CCCCCCCC      HH      HH      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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 MODULE BASSCHR (
2 0002 0 IDENT = '1-004' : return unsigned byte as 1 char string
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1
8 0008 1
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *
28 0028 1
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: BASIC support library
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 Return unsigned byte integer as a one byte string
37 0037 1
38 0038 1 ENVIRONMENT: User mode, AST level or not or mixed
39 0039 1
40 0040 1 AUTHOR: R. Will, CREATION DATE: 23-feb-79
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 R. Will, 23-feb-79: VERSION 01
45 0045 1 01 - original
46 0046 1 1-002 - Change FILL_CHAR to STR$K FILL CHAR. JBS 09-APR-1979
47 0047 1 1-003 - Rename from BASSCHAR to BASSCHR. RW 21-MAY-79
48 0048 1 1-004 - String cleanup. Don't use $STR$ macros. 26-Oct-79
49 0049 1 --
50 0050 1 <BLF/PAGE>

```

```

: 52 0051 1 :
: 53 0052 1 : SWITCHES:
: 54 0053 1 :
: 55 0054 1 :
: 56 0055 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 57 0056 1 :
: 58 0057 1 :
: 59 0058 1 : LINKAGES:
: 60 0059 1 :
: 61 0060 1 :
: 62 0061 1 REQUIRE 'RTLIN:STRLNK'; ! Use require file with string linkage
: 63 0246 1 :
: 64 0247 1 :
: 65 0248 1 : TABLE OF CONTENTS:
: 66 0249 1 :
: 67 0250 1 :
: 68 0251 1 FORWARD ROUTINE
: 69 0252 1 BAS$CHR : NOVALUE; ! Return integer as one char string
: 70 0253 1 :
: 71 0254 1 :
: 72 0255 1 : INCLUDE FILES:
: 73 0256 1 :
: 74 0257 1 :
: 75 0258 1 REQUIRE 'RTLIN:RTLPSECT'; ! Declare PSECTS code
: 76 0353 1 :
: 77 0354 1 :
: 78 0355 1 : MACROS: NONE
: 79 0356 1 :
: 80 0357 1 :
: 81 0358 1 :
: 82 0359 1 : EQUATED SYMBOLS: NONE
: 83 0360 1 :
: 84 0361 1 :
: 85 0362 1 :
: 86 0363 1 : PSECT DECLARATIONS
: 87 0364 1 :
: 88 0365 1 :
: 89 0366 1 DECLARE_PSECTS (BAS);
: 90 0367 1 :
: 91 0368 1 :
: 92 0369 1 : OWN STORAGE: NONE
: 93 0370 1 :
: 94 0371 1 :
: 95 0372 1 :
: 96 0373 1 : EXTERNAL REFERENCES
: 97 0374 1 :
: 98 0375 1 EXTERNAL ROUTINE STR$COPY_R_RB : STR$JSB_COPY_R; ! copy to dest string
: 99 0376 1 :

```

```

101 0377 1 GLOBAL ROUTINE BASSCHR (
102 0378 1
103 0379 1     DEST_DESC,
104 0380 1     INTEGER) : NOVALUE =
105 0381 1     ! integer to a 1 char string
106 0382 1     ! Pointer to dest str desc
107 0383 1     ! Pointer to integer value
108 0384 1
109 0385 1     **
110 0386 1     FUNCTIONAL DESCRIPTION:
111 0387 1
112 0388 1     Return unsigned byte integer \should this be signed, error if neg\
113 0389 1     as a one byte 8-bit ASCII string according to the semantics of the
114 0390 1     destination string. Range of input byte is 0 through 255.
115 0391 1     Since output string is first argument, this can be called as either
116 0392 1     a subroutine of two arguments, or a string function of one argument.
117 0393 1
118 0394 1     FORMAL PARAMETERS:
119 0395 1
120 0396 1     DEST_DESC.wt.dx     pointer to destination string descriptor
121 0397 1     INTEGER.rbu.v       value of ASCII integer
122 0398 1
123 0399 1     IMPLICIT INPUTS:
124 0400 1
125 0401 1     NONE
126 0402 1
127 0403 1     IMPLICIT OUTPUTS:
128 0404 1
129 0405 1     NONE
130 0406 1
131 0407 1     ROUTINE VALUES:
132 0408 1     COMPLETION CODES:
133 0409 1
134 0410 1     NONE
135 0411 1
136 0412 1     SIDE EFFECTS:
137 0413 1
138 0414 1     This routine JSBs to STR$COPY$R_R8 and therefore may signal any
139 0415 1     of its errors or return any of its statuses. It may also
140 0416 1     allocate or deallocate space for the destination string, and
141 0417 1     lock that string from being written for a period of time.
142 0418 1
143 0419 1     --
144 0420 1     BEGIN
145 0421 2
146 0422 2     MAP
147 0423 2     DEST_DESC: REF BLOCK [8, BYTE],
148 0424 1     INTEGER : BYTE;
149
150 STR$COPY_R_R8 (DEST_DESC [0,0,0,0], 1, INTEGER); ! create the string
151 RETURN;
152 END; !End of BASSCHR

```

```

.TITLE BASSCHR
.IDENT \1-004\

.EXTRN STR$COPY_R_R8

.PSECT _BASSCODE,NOWRT, SHR, PIC,2

```

BASSCHR
1-004

M 6
16-Sep-1984 00:07:37 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:54:47 [BASRTL.SRC]BASCHR.B32;1

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(3)

52	08	AC	01FC 0000	.ENTRY	BASSCHR, Save R2,R3,R4,R5,R6,R7,R8	:	0377
51		AC	9E 00002	MOVAB	INTEGER, R2	:	0422
50	04	AC	D0 00006	MOVL	#1, R1	:	
		AC	D0 00009	MOVL	DEST_DESC, R0	:	
	00000000G	00	16 0000D	JSB	STR\$COPY_R_R8	:	
			04 00013	RET		:	0424

; Routine Size: 20 bytes, Routine Base: _BAS\$CODE + 0000

BAS\$CHR
1-004

N 6
16-Sep-1984 00:07:37
14-Sep-1984 11:54:47

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASCHR.B32;1

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(4)

: 150 0425 1 END
: 151 0426 0 ELUDOM

!End of module

PSECT SUMMARY

```
:  
:  
: Name                   Bytes                   Attributes  
:  
: _BAS$CODE              20 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)
```

COMMAND QUALIFIERS

```
:  
:       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:BASCHR/OBJ=OBJ$:BASCHR MSRC$:BASCHR/UPDATE=(ENH$:BASCHR)  
:  
: Size:           20 code + 0 data bytes  
: Run Time:       00:02.5  
: Elapsed Time:   00:06.6  
: Lines/CPU Min:  10183  
: Lexemes/CPU-Min: 32605  
: Memory Used:    23 pages  
: Compilation Complete
```

