



```

CCCCCCCC  EEEEEEEEE  NN      NN  TTTTTTTTTT  XX      XX  TTTTTTTTTT
CCCCCCCC  EEEEEEEEE  NN      NN  TTTTTTTTTT  XX      XX  TTTTTTTTTT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CC         EE         NN      NN  TT          XX      XX  TT          TT
CCCCCCCC  EEEEEEEEE  NN      NN  TT          XX      XX  TT          TT
CCCCCCCC  EEEEEEEEE  NN      NN  TT          XX      XX  TT          TT

```

```

....
....
....
....

```

```

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 CENTXT (
2 0002 0 IDENT = 'V04-000'!
3 P 0003 0 %BLISS32[
4 P 0004 0 ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
5 0005 0 ]
6 0006 0 ) =
7 0007 1 BEGIN
8 0008 1
9 0009 1 *****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
34 0034 1
35 0035 1 ABSTRACT: Centers and outputs a single line of text.
36 0036 1
37 0037 1
38 0038 1 ENVIRONMENT: Transportable
39 0039 1
40 0040 1 AUTHOR: R.W.Friday CREATION DATE: December, 1978
41 0041 1

```

Revision History

:	43	0042	1	%SBTTL 'Revision History'
:	44	0043	1	!
:	45	0044	1	MODIFIED BY:
:	46	0045	1	!
:	47	0046	1	! 002 KFA00002 Ken Alden 07-Mar-1983
:	48	0047	1	! Global edit of all modules. Updated module names, idents,
:	49	0048	1	! copyright dates. Changed require files to BLISS library.
:	50	0049	1	!
:	51	0050	1	! --

Module Level Declarations

```
.. 53      0051 1 %SBTTL 'Module Level Declarations'  
.. 54      0052 1  
.. 55      0053 1  
.. 56      0054 1 | TABLE OF CONTENTS:  
.. 57      0055 1 |  
.. 58      0056 1 |  
.. 59      0057 1 | INCLUDE FILES:  
.. 60      0058 1 |  
.. 61      0059 1 |  
.. 62      0060 1 LIBRARY 'NXPORT:XPORT';      ! XPORT Library  
.. 63      0061 1 REQUIRE 'REQ:RNODEF';      ! RUNOFF variant definitions  
.. 64      0192 1 |  
.. 65      U 0193 1 %IF DSRPLUS %THEN  
.. 66      U 0194 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library  
.. 67      0195 1 %ELSE  
.. 68      0196 1 LIBRARY 'REQ:DSRLIB';      ! DSR BLISS Library  
.. 69      0197 1 %FI  
.. 70      0198 1 |  
.. 71      0199 1 |  
.. 72      0200 1 | MACROS:  
.. 73      0201 1 |  
.. 74      0202 1 |  
.. 75      0203 1 | EQUATED SYMBOLS:  
.. 76      0204 1 |  
.. 77      0205 1 |  
.. 78      0206 1 EXTERNAL LITERAL  
.. 79      0207 1     RINTES : UNSIGNED (8);  
.. 80      0208 1 |  
.. 81      0209 1 |  
.. 82      0210 1 | OWN STORAGE:  
.. 83      0211 1 |  
.. 84      0212 1 |  
.. 85      0213 1 | EXTERNAL REFERENCES:  
.. 86      0214 1 |  
.. 87      0215 1 |  
.. 88      0216 1 EXTERNAL  
.. 89      0217 1     IRA,  
.. 90      0218 1     KHAR,  
.. 91      0219 1     SCA : SCA_DEFINITION,  
.. 92      0220 1     TSF : TSF_DEFINITION;  
.. 93      0221 1 |  
.. 94      0222 1 EXTERNAL ROUTINE  
.. 95      0223 1     ENDCHR,  
.. 96      0224 1     OUTNJ,  
.. 97      0225 1     RSKIPS;  
.. 98      0226 1
```

```
0227 1 GLOBAL ROUTINE CENTXT (TEXT_PTR, TEXT_LENGTH) =
0228 1
0229 1 ++
0230 1 FUNCTIONAL DESCRIPTION:
0231 1
0232 1     Beginning with the current position on the current record,
0233 1     CENTXT skips tabs and spaces until it encounters something
0234 1     else. If that "something else" is the end-of-record
0235 1     indicator (';' or RINTES), it outputs the text supplied.
0236 1     If the "something else" is not the end-of-record indicator,
0237 1     no text is output.
0238 1
0239 1 FORMAL PARAMETERS:
0240 1
0241 1     TEXT_PTR is a CH$PTR to the text to be centered and output.
0242 1     TEXT_LENGTH is the length of the text.
0243 1
0244 1 IMPLICIT INPUTS:      None
0245 1
0246 1 IMPLICIT OUTPUTS:    None
0247 1
0248 1 ROUTINE VALUE:
0249 1 COMPLETION CODES:
0250 1
0251 1     Returns TRUE if the text was centered and output (i.e.,
0252 1     end-of-record was found), otherwise FALSE.
0253 1
0254 1 SIDE EFFECTS: None
0255 1
0256 1 --
0257 1
0258 2 BEGIN
0259 2 LOCAL
0260 2     PTR;
0261 2
0262 2     !Determine if text was given on the current record.
0263 2     RSKIPS (IRA);                !Skip spaces and tabs.
0264 2
0265 2     IF .KHAR EQL RINTES          !
0266 2     OR .KHAR EQL 'XC';
0267 2 THEN
0268 2     !No text on the record. Output the specified text, centered.
0269 2     BEGIN
0270 2     PTR = .TEXT_PTR;
0271 2
0272 2     INCR I FROM 1 TO .TEXT_LENGTH DO
0273 2     ENDCHR (CH$RCHAR_A (PTR));
0274 2
0275 2     !Normally, the text will fit between the margins, since
0276 2     !this is not "user" text. However, just to be certain,
0277 2     !if it can't be centered, leave it far to the left.
0278 2     TSF_ADJUST = MAX ((.SCA_RM - .SCA_LM - .TEXT_LENGTH)/2, 0);
0279 2     !Output the line containing the centered text.
0280 2     OUTNJ ();
0281 2     RETURN TRUE;
0282 2     END
0283 2 ELSE
```

```

: 157      0284 2      RETURN FALSE
: 158      0285 2
: 159      0286 1      END;

```

!End of CENTXT

```

.TITLE CENTXT
.IDENT  \V04-000\

.EXTRN  RINTES, IRA, KHAR
.EXTRN  SCA, TSF, ENDCHR
.EXTRN  OUTNJ, RSKIPS

.PSECT  $CODE$,NOWRT,2

```

			001C 00000	.ENTRY CENTXT, Save R2,R3,R4	: 0227
	54	00000000G	EF 9E 00002	MOVAB KHAR, R4	: 0263
		00000000G	EF 9F 00009	PUSHAB IRA	: 0265
		00000000G	01 FB 0000F	CALLS #1, RSKIPS	: 0266
	3B		64 D1 00016	CMPL KHAR, #RINTES	: 0270
			05 13 0001D	BEQL 1\$: 0272
	53	04	64 D1 0001F	CMPL KHAR, #59	: 0273
			44 12 00022	BNEQ 5\$: 0278
			AC D0 00024 1\$:	MOVL TEXT_PTR, PTR	: 0280
			52 D4 00028	CLRL I	: 0284
			0A 11 0002A	BRB 3\$: 0286
	7E		83 9A 0002C 2\$:	MOVZBL (PTR)+, -(SP)	
			01 FB 0002F	CALLS #1, ENDCHR	
F1		00000000G	AC F3 00036 3\$:	AOBLEQ TEXT_LENGTH, I, 2\$	
			EF D0 0003B	MOVL TSF, R1	
50		00000000G	FF C3 00042	SUBL3 @SCA+116, @SCA+120, R0	: 0278
			50 08	SUBL2 TEXT_LENGTH, R0	
			AC C2 0004E	DIVL2 #2, R0	
			02 C6 00052	BGEQ 4\$	
			02 18 00055	CLRL R0	
	28	A1	50 D4 00057	MOVL R0, 40(R1)	: 0280
			50 D0 00059 4\$:	CALLS #0, OUTNJ	: 0284
			00 FB 0005D	MOVL #1, R0	
			01 D0 00064	RET	
			04 00067	CLRL R0	
			50 D4 00068 5\$:	RET	: 0286
			04 0006A		

: Routine Size: 107 bytes, Routine Base: \$CODE\$ + 0000

```

: 160      0287 1
: 161      0288 1 END      !End of module
: 162      0289 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
------	-------	------------

: \$CODE\$ 107 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	9	0	86	00:00.3

COMMAND QUALIFIERS

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

: Size: 107 code + 0 data bytes
: Run Time: 00:03.3
: Elapsed Time: 00:08.7
: Lines/CPU Min: 5222
: Lexemes/CPU-Min: 8566
: Memory Used: 33 pages
: Compilation Complete

