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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

```

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LL        IIIIIII  SSSSSSSS
LL        IIIIIII  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 IIIIIII  SSSSSSSS
LLLLLLLLLL IIIIIII  SSSSSSSS

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```

0001 0 MODULE CENTXT (
0002 0 IDENT = 'V04-000'!
P 0003 0 %BLISS32[
0004 0 ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
0005 0 ]
0006 0 ) =
0007 1 BEGIN
0008 1
0009 1 *****
0010 1 *
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0028 1 *
0029 1 *
0030 1 *****
0031 1
0032 1 ++
0033 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
0034 1
0035 1 ABSTRACT: Centers and outputs a single line of text.
0036 1
0037 1
0038 1 ENVIRONMENT: Transportable
0039 1
0040 1 AUTHOR: R.W.Friday CREATION DATE: December, 1978
0041 1

```

Revision History

:	43	0042	1	XSBTTL '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
```

```
100 0227 1 GLOBAL ROUTINE CENTXT (TEXT_PTR, TEXT_LENGTH) =
101 0228 1
102 0229 1 ++
103 0230 1 FUNCTIONAL DESCRIPTION:
104 0231 1
105 0232 1     Beginning with the current position on the current record,
106 0233 1     CENTXT skips tabs and spaces until it encounters something
107 0234 1     else. If that "something else" is the end-of-record
108 0235 1     indicator (';' or RINTES), it outputs the text supplied.
109 0236 1     If the "something else" is not the end-of-record indicator,
110 0237 1     no text is output.
111 0238 1
112 0239 1 FORMAL PARAMETERS:
113 0240 1
114 0241 1     TEXT_PTR is a CHSPTR to the text to be centered and output.
115 0242 1     TEXT_LENGTH is the length of the text.
116 0243 1
117 0244 1 IMPLICIT INPUTS:      None
118 0245 1
119 0246 1 IMPLICIT OUTPUTS:    None
120 0247 1
121 0248 1 ROUTINE VALUE:
122 0249 1 COMPLETION CODES:
123 0250 1
124 0251 1     Returns TRUE if the text was centered and output (i.e.,
125 0252 1     end-of-record was found), otherwise FALSE.
126 0253 1
127 0254 1 SIDE EFFECTS: None
128 0255 1
129 0256 1 --
130 0257 1
131 0258 2 BEGIN
132 0259 2 LOCAL
133 0260 2     PTR;
134 0261 2
135 0262 2     !Determine if text was given on the current record.
136 0263 2     RSKIPS (IRA);                               !Skip spaces and tabs.
137 0264 2
138 0265 2     IF .KHAR EQL RINTES                               !
139 0266 2         OR .KHAR EQL 'XC';
140 0267 2 THEN
141 0268 2     !No text on the record. Output the specified text, centered.
142 0269 2     BEGIN
143 0270 2         PTR = .TEXT_PTR;
144 0271 2
145 0272 2         INCR I FROM 1 TO .TEXT_LENGTH DO
146 0273 2             ENDCHR (CH$RCHAR_A (PTR));
147 0274 2
148 0275 2         !Normally, the text will fit between the margins, since
149 0276 2         !this is not "user" text. However, just to be certain,
150 0277 2         !if it can't be centered, leave it far to the left.
151 0278 2         TSF ADJUST = MAX ((.SCA_RM - .SCA_LM - .TEXT_LENGTH)/2, 0);
152 0279 2         !Output the line containing the centered text.
153 0280 2         OUTNJ ();
154 0281 2         RETURN TRUE;
155 0282 2     END
156 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

54 00000000G EF 9E 00002  
00000000G EF 9F 00009  
00000000G EF 01 FB 0000F  
00000000G 8F 64 D1 00016  
3B 05 13 0001D  
64 D1 0001F  
44 12 00022  
53 04 AC D0 00024 1\$:  
52 D4 00028  
0A 11 0002A  
7E 83 9A 0002C 2\$:  
00000000G EF 01 FB 0002F  
F1 52 08 AC F3 00036 3\$:  
51 00000000G EF D0 0003B  
50 00000000G FF 00000000G FF C3 00042  
50 08 AC C2 0004E  
02 C6 00052  
02 18 00055  
50 D4 00057  
28 A1 50 D0 00059 4\$:  
00000000G EF 00 FB 0005D  
50 01 D0 00064  
04 00067  
50 D4 00068 5\$:  
04 0006A

.ENTRY CENTXT, Save R2,R3,R4  
MOVAB KHAR, R4  
PUSHAB IRA  
CALLS #1, RSKIPS  
CML KHAR, #RINTES  
BEQL 1\$  
CML KHAR, #59  
BNEQ 5\$  
MOVL TEXT\_PTR, PTR  
CLRL I  
BRB 3\$  
MOVZBL (PTR)+, -(SP)  
CALLS #1, ENDCHR  
AOBLEQ TEXT\_LENGTH, I, 2\$  
MOVL TSF, R1  
SUBL3 @SCA+116, @SCA+120, R0  
SUBL2 TEXT\_LENGTH, R0  
DIVL2 #2, R0  
BGEQ 4\$  
CLRL R0  
MOVL R0, 40(R1)  
CALLS #0, OUTNJ  
MOVL #1, R0  
RET  
CLRL R0  
RET

: 0227  
: 0263  
: 0265  
: 0266  
: 0270  
: 0272  
: 0273  
: 0278  
: 0280  
: 0284  
: 0286

: 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

CENTXT  
V04-000

Module Level Declarations

G 14  
15-Sep-1984 23:55:58  
14-Sep-1984 13:05:39

VAX-11 Bliss-32 V4.0-742  
[RUNOFF.SRC]CENTXT.BLI;1

Page 6  
(4)

: SCODES 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=(ENHS:CENTXT)

: Size: 107 code + 0 data bytes  
: Run Time: 00:03.3  
: Elapsed Time: 00:08.7  
: Lines/CPU Min: 522  
: Lexemes/CPU-Min: 8566  
: Memory Used: 33 pages  
: Compilation Complete



Thumbnail 1	Thumbnail 2	Thumbnail 3	Thumbnail 4	Thumbnail 5	Thumbnail 6	Thumbnail 7	Thumbnail 8	Thumbnail 9	Thumbnail 10
Thumbnail 11	Thumbnail 12	Thumbnail 13	Thumbnail 14	Thumbnail 15	Thumbnail 16	Thumbnail 17	Thumbnail 18	Thumbnail 19	Thumbnail 20
Thumbnail 21	Thumbnail 22	Thumbnail 23	Thumbnail 24	Thumbnail 25	Thumbnail 26	Thumbnail 27	Thumbnail 28	Thumbnail 29	Thumbnail 30
Thumbnail 31	Thumbnail 32	Thumbnail 33	Thumbnail 34	Thumbnail 35	Thumbnail 36	Thumbnail 37	Thumbnail 38	Thumbnail 39	Thumbnail 40
Thumbnail 41	Thumbnail 42	Thumbnail 43	Thumbnail 44	Thumbnail 45	Thumbnail 46	Thumbnail 47	Thumbnail 48	Thumbnail 49	Thumbnail 50
Thumbnail 51	Thumbnail 52	Thumbnail 53	Thumbnail 54	Thumbnail 55	Thumbnail 56	Thumbnail 57	Thumbnail 58	Thumbnail 59	Thumbnail 60
Thumbnail 61	Thumbnail 62	Thumbnail 63	Thumbnail 64	Thumbnail 65	Thumbnail 66	Thumbnail 67	Thumbnail 68	Thumbnail 69	Thumbnail 70
Thumbnail 71	Thumbnail 72	Thumbnail 73	Thumbnail 74	Thumbnail 75	Thumbnail 76	Thumbnail 77	Thumbnail 78	Thumbnail 79	Thumbnail 80
Thumbnail 81	Thumbnail 82	Thumbnail 83	Thumbnail 84	Thumbnail 85	Thumbnail 86	Thumbnail 87	Thumbnail 88	Thumbnail 89	Thumbnail 90
Thumbnail 91	Thumbnail 92	Thumbnail 93	Thumbnail 94	Thumbnail 95	Thumbnail 96	Thumbnail 97	Thumbnail 98	Thumbnail 99	Thumbnail 100