


```

000000    UU    UU    TTTTTTTTTT    XX    XX    HH    HH    RRRRRRRR
000000    UU    UU    TTTTTTTTTT    XX    XX    HH    HH    RRRRRRRR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
00      00    UU    UU    TT          XX    XX    HH    HH    RR      RR
000000    UUUUUUUUUU    TT          XX    XX    HH    HH    RR      RR
000000    UUUUUUUUUU    TT          XX    XX    HH    HH    RR      RR

```

```

LL      IIIII    SSSSSSSS
LL      IIIII    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    IIIII    SSSSSSSS
LLLLLLLLLL    IIIII    SSSSSSSS

```

PJ VC

```

1 0001 0 %TITLE 'Enters characters into index flag buffer'
2 0002 C MODULE OUTXMR ( IDENT = 'V04-000'
3 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: Enter a single character into the Index flag buffer.
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

```

```
.. 43 0042 1 %SBTTL 'Revision History'
.. 44 0043 1
.. 45 0044 1 MODIFIED BY:
.. 46 0045 1
.. 47 0046 1 010 REM00010 Ray Marshall 17-November-1983
.. 48 0047 1 Modified the way we look at the character output. We strip
.. 49 0048 1 off the high order bit so we can still check in the same
.. 50 0049 1 way if is printable.
.. 51 0050 1 (I don't know what happened in IDENTs 7 through 9. When I
.. 52 0051 1 started this edit, the IDENT was at 009.)
.. 53 0052 1
.. 54 0053 1 006 KAD00006 Keith Dawson 07-Mar-1983
.. 55 0054 1 Global edit of all modules. Updated module names, idents,
.. 56 0055 1 copyright dates. Changed require files to BLISS library.
.. 57 0056 1
.. 58 0057 1 --
```

```

: 60      0058 1 %SBTTL 'Module Level Declarations'
: 61      0059 1
: 62      0060 1
: 63      0061 1 | TABLE OF CONTENTS:
: 64      0062 1 |
: 65      0063 1 FORWARD ROUTINE
: 66      0064 1   OUTXPH : NOVALUE;
: 67      0065 1 |
: 68      0066 1 | INCLUDE FILES:
: 69      0067 1 |
: 70      0068 1 |
: 71      0069 1 LIBRARY 'NXPOR:XPORT';           ! XPORT Library
: 72      0070 1 REQUIRE 'REQ:RNODEF';         ! RUNOFF variant definitions
: 73      0201 1 |
: 74      U 0202 1 %IF DSRPLUS %THEN
: 75      U 0203 1 LIBRARY 'REQ:DPLLIB';       ! DSRPLUS BLISS Library
: 76      0204 1 %ELSE
: 77      0205 1 LIBRARY 'REQ:DSRLIB';       ! DSR BLISS Library
: 78      0206 1 %FI
: 79      0207 1 |
: 80      0208 1 |
: 81      0209 1 | MACROS:
: 82      0210 1 |
: 83      0211 1 |
: 84      0212 1 | EQUATED SYMBOLS:
: 85      0213 1 |
: 86      0214 1 |
: 87      0215 1 EXTERNAL LITERAL
: 88      0216 1   RINTES : UNSIGNED (8);
: 89      0217 1 |
: 90      0218 1 EXTERNAL LITERAL           !Error messages
: 91      0219 1   RNFITC;
: 92      0220 1 |
: 93      0221 1 |
: 94      0222 1 | OWN STORAGE:
: 95      0223 1 |
: 96      0224 1 |
: 97      0225 1 | EXTERNAL REFERENCES:
: 98      0226 1 |
: 99      0227 1 |
: 100     0228 1 EXTERNAL
: 101     0229 1   GCA : GCA_DEFINITION,
: 102     0230 1   SCA : SCA_DEFINITION,
: 103     0231 1   TSF : TSF_DEFINITION,
: 104     0232 1   MRA : REF_FIXED_STRING,
: 105     0233 1   XMRA : FIXED_STRING,
: 106     0234 1   XTSF : VECTOR;
: 107     0235 1 |
: 108     0236 1 EXTERNAL ROUTINE
: 109     0237 1   ERML,
: 110     0238 1   OUTLIN;
: 111     0239 1

```

```

113 0240 1 GLOBAL ROUTINE OUTXHR (KHAR) : NOVALUE =
114 0241 1
115 0242 1 ++
116 0243 1 FUNCTIONAL DESCRIPTION:
117 0244 1
118 0245 1     OUTXHR takes KHAR and puts it, along with underlining codes,
119 0246 1     into the buffer where things marked with the index flag
120 0247 1     are saved.
121 0248 1
122 0249 1 FORMAL PARAMETERS:
123 0250 1
124 0251 1     KHAR is the character to be output.
125 0252 1
126 0253 1 IMPLICIT INPUTS:
127 0254 1
128 0255 1     This code will continue to work correctly only if the only
129 0256 1     possible values that GCA_XCASE can have is ONE_CAP or LEAVE_CASE.
130 0257 1
131 0258 1 IMPLICIT OUTPUTS:      None
132 0259 1
133 0260 1 ROUTINE VALUE:
134 0261 1 COMPLETION CODES:      None
135 0262 1
136 0263 1 SIDE EFFECTS: None
137 0264 1
138 0265 1 --
139 0266 1
140 0267 2 BEGIN
141 0268 2
142 0269 2 LOCAL
143 0270 2     HOLD TSF,
144 0271 2     XCHAR;                !Actual character to put in index buffer
145 0272 2
146 0273 2 !Assume character needs no translation.
147 0274 2 XCHAR = .KHAR;
148 0275 2 !Now see if it needs translation.
149 0276 2
150 0277 3 IF NOT (.SCA_FRC CHR
151 0278 3     OR .SCF_WORD_SET
152 0279 3     OR .SCA_FRC_CASE
153 0280 3     OR (.GCA_XCASE EQL LEAVE_CASE))
154 0281 2 THEN
155 0282 2 !Character needs to be translated.
156 0283 3
157 0284 3     IF LETTER (.XCHAR)
158 0285 2 THEN
159 0286 2 !Only letters get translated, and this is one.
160 0287 2
161 0288 2     IF .FS_LENGTH (XMRA) EQL 0
162 0289 2 THEN
163 0290 2 !The first character of the word, if it's a letter,
164 0291 2 !gets translated to upper case.
165 0292 2 !NOTE: Implicit here is that GCA_XCASE is specifying ONE_CAP
166 0293 2
167 0294 2     IF LOWER_LETTER (.XCHAR)
168 0295 2 THEN
169 0296 2     XCHAR = UPPER_CASE (.XCHAR)

```

```

170      0297      2
171      0298      2
172      0299      2
173      0300      2
174      0301      2
175      0302      2
176      0303      2
177      0304      2
178      0305      2
179      0306      2
180      0307      2
181      0308      2
182      0309      2
183      0310      2
184      0311      2
185      0312      2
186      0313      2
187      0314      2
188      0315      2
189      0316      2
190      0317      2
191      0318      2
192      0319      2
193      0320      2
194      0321      2
195      0322      2
196      0323      2
197      0324      2
198      0325      2
199      0326      2
200      0327      2
201      0328      2
202      0329      2
203      0330      2
204      0331      3
205      0332      4
206      0333      4
207      0334      4
208      0335      4
209      0336      4
210      0337      3
211      0338      2
212      0339      2
213      0340      2
214      0341      2
215      0342      2
216      0343      2
217      0344      2
218      0345      2
219      0346      2
220      0347      3
221      0348      3
222      0349      3
223      0350      3
224      0351      3
225      0352      2
226      0353      2

```

```

      ELSE
      (0)

      ELSE
      !Other letters in the word get translated
      !to lower case.

      IF UPPER_LETTER (.XCHAR)
      THEN
      XCHAR = LOWER_CASE (.XCHAR);

      !Switch to Index flag work area.
      HOLD_TSF = .TSF;
      TSF = XTSF;

      !First, be sure there's room enough to save the entry.
      BEGIN
      LOCAL
      NEEDED;

      NEEDED = 0;

      IF .SCA_WRD_AC_UND
      THEN
      NEEDED = 3;

      IF .SCA_WRD_AC_BLD
      THEN
      NEEDED = .NEEDED + 3;

      NEEDED = .NEEDED + 1;

      IF (.TSF_INT_HL + .NEEDED) GTR .FS_MAXSIZE (XMRA)
      THEN
      !Won't fit. Tell user and terminate in the middle of this phrase.
      BEGIN
      TSF = .HOLD_TSF;           !Restore "real" TSF.
      ERML(RNFITC);
      OUTXPH ();
      RETURN;
      END;
      END;

      !Now, put the character into the Index flag buffer.
      !First, check for underlining. Note that only underlining on a "per
      !character" basis is sticky enough to get into the index. I.e., ^&A
      !gets indexed as "A", but &A really does get underlined.
      IF .SCA_WRD_AC_UND
      THEN
      !Underlining was forced for this character.
      BEGIN
      FS_WCHAR (XMRA, RINTES);
      FS_WCHAR (XMRA, %C'U');
      FS_WCHAR (XMRA, %C' ');
      TSF_INT_HL = .TSF_INT_HL + 3;
      END;

```

```

227 0354 2 !Now put the character itself in.
228 0355 2 FS WCHAR (XMRA, .XCHAR);
229 0356 2 TSF_INT_HL = .TSF_INT_HL + 1;
230 0357 2
231 0358 2 IF (.XCHAR AND %X'7F') GEQ %C' '
232 0359 2 AND (.XCHAR AND %X'7F') LSS %O'177'
233 0360 2 THEN
234 0361 2 TSF_EXT_HL = .TSF_EXT_HL + 1
235 0362 2 ELSE
236 0363 2 IF .XCHAR EQL %O'010'
237 0364 2 THEN
238 0365 2 !Back up for backspace.
239 0366 2 TSF_EXT_HL = .TSF_EXT_HL - 1;
240 0367 2
241 0368 2 !Switch back to primary buffer
242 0369 2 TSF = .HOLD_TSF;
243 0370 2 END;

```

!Backspace???

!End of OUTXHR

```

.TITLE OUTXHR Enters characters into index flag buffer
.IDENT \V04-000\

.EXTRN RINTES, RNFITC, GCA
.EXTRN SCA, TSF, MRA, XMRA
.EXTRN XTSF, ERML, OUTLIN

```

.PSECT \$CODE\$,NOWRT,2

			007C 00000	.ENTRY	OUTXHR, Save R2,R3,R4,R5,R6	0240
	56	00000000G	EF 9E 00002	MOVAB	SCA+200, R6	
	55	00000000G	EF 9E 00009	MOVAB	TSF, R5	
	54	00000000G	EF 9E 00010	MOVAB	XMRA+4, R4	
	52	04	AC D0 00017	MOVL	KHAR, XCHAR	0274
	63	10	A6 E8 0001B	BLBS	SCA+216, 4\$	0277
	5F	98	A6 E8 0001F	BLBS	SCA+96, 4\$	0278
	5B	D8	A6 E8 00023	BLBS	SCA+160, 4\$	0279
		00000000G	FF D5 00027	TSTL	@GCA+84	0280
			53 13 0002D	BEQL	4\$	
			50 D4 0002F	CLRL	R0	0284
00000041	8F		52 D1 00031	CMPL	XCHAR, #65	
			0B 19 00038	BLSS	1\$	
			50 D6 0003A	INCL	R0	
0000005A	8F		52 D1 0003C	CMPL	XCHAR, #90	
			12 15 00043	BLEQ	2\$	
00000061	8F		52 D1 00045	CMPL	XCHAR, #97	
			34 19 0004C	BLSS	4\$	
0000007A	8F		52 D1 0004E	CMPL	XCHAR, #122	
			2B 14 00055	BGTR	4\$	
		08	A4 D5 00057	TSTL	XMRA+12	0288
			17 12 0005A	BNEQ	3\$	
00000061	8F		52 D1 0005C	CMPL	XCHAR, #97	0294
			1D 19 00063	BLSS	4\$	
0000007A	8F		52 D1 00065	CMPL	XCHAR, #122	
			14 14 0006C	BGTR	4\$	
	52		20 C2 0006E	SUBL2	#32, XCHAR	0296
			0F 11 00071	BRB	4\$	0294
	0C		50 E9 00073	BLBC	R0, 4\$	0304

0000005A	8F		52	D1	00076	CMPL	XCHAR, #90		
			03	14	0007D	BGTR	4\$		
	52		20	C0	0007F	ADDL2	#32, XCHAR		0306
	53		65	D0	00082	4\$: MOVL	TSF, HOLD_TSF		0309
	65	00000000G	EF	9E	00085	MOVAB	XTSF, TSF-		0310
			50	D4	0008C	CLRL	NEEDED		0317
03	66		01	E1	0008E	BBC	#1, SCA+200, 5\$		0319
	50		03	D0	00092	MOVL	#3, NEEDED		0321
	03		66	E9	00095	5\$: BLBC	SCA+200, 6\$		0323
	50		03	C0	00098	ADDL2	#3, NEEDED		0325
			50	D6	0009B	6\$: INCL	NEEDED		0327
	50	00	B5	C0	0009D	ADDL2	@TSF, R0		0329
04	A4		50	D1	000A1	CMPL	R0, XMRA+8		
			18	15	000A5	BLEQ	7\$		
	65		53	D0	000A7	MOVL	HOLD_TSF, TSF		0333
		00000000G	8F	DD	000AA	PUSHL	#RNFITC		0334
	00000000G		01	FB	000B0	CALLS	#1, ERML		
	00000000V		00	FB	000B7	CALLS	#0, OUTXPH		0335
			04		000BE	RET			0332
21	66		01	E1	000BF	7\$: BBC	#1, SCA+200, 8\$		0344
	00	B4	00G	8F	90	000C3	MOVB	#RINTES, @XMRA+4	0348
				64	D6	000C8	INCL	XMRA+4	
			08	A4	D6	000CA	INCL	XMRA+12	
	00	B4	55	8F	90	000CD	MOVB	#85, @XMRA+4	0349
				64	D6	000D2	INCL	XMRA+4	
			08	A4	D6	000D4	INCL	XMRA+12	
	00	B4		20	90	000D7	MOVB	#32, @XMRA+4	0350
				64	D6	000DB	INCL	XMRA+4	
			08	A4	D6	000DD	INCL	XMRA+12	
	00	B5		03	C0	000E0	ADDL2	#3, @TSF	0351
	00	B4		52	90	000E4	8\$: MOVB	XCHAR, @XMRA+4	0355
				64	D6	000E8	INCL	XMRA+4	
			08	A4	D6	000EA	INCL	XMRA+12	
	50			65	D0	000ED	MOVL	TSF, R0	
				60	D6	000F0	INCL	(R0)	0356
	20	52	07	00	ED	000F2	CMPL	#0, #7, XCHAR, #32	0358
				10	19	000F7	BLSS	9\$	
0000007F	8F	52	07	00	ED	000F9	CMPL	#0, #7, XCHAR, #127	0359
				05	18	00102	BGEQ	9\$	
			04	A0	D6	00104	INCL	4(R0)	0361
				08	11	00107	BRB	10\$	
	08			52	D1	00109	9\$: CMPL	XCHAR, #8	0363
				03	12	0010C	BNEQ	10\$	
			04	A0	D7	0010E	DECL	4(R0)	0366
	65			53	D0	00111	10\$: MOVL	HOLD_TSF, TSF	0369
				04		00114	RET		0370

; Routine Size: 277 bytes, Routine Base: \$CODE\$ + 0000

```

245 0371 1 GLOBAL ROUTINE OUTXPH : NOVALUE =
246 0372 1
247 0373 1
248 0374 1
249 0375 1
250 0376 1
251 0377 1
252 0378 1
253 0379 1
254 0380 1
255 0381 1
256 0382 1
257 0383 1
258 0384 1
259 0385 1
260 0386 1
261 0387 1
262 0388 1
263 0389 1
264 0390 1
265 0391 1
266 0392 1
267 0393 1
268 0394 1
269 0395 1
270 0396 1
271 0397 2
272 0398 2
273 0399 2
274 0400 2
275 0401 2
276 0402 2
277 0403 2
278 0404 2
279 0405 2
280 0406 2
281 0407 2
282 0408 2
283 0409 2
284 0410 2
285 0411 2
286 0412 2
287 0413 2
288 0414 3
289 0415 3
290 0416 3
291 0417 3
292 0418 3
293 0419 3
294 0420 3
295 0421 3
296 0422 3
297 0423 3
298 0424 3
299 0425 3
300 0426 3
301 0427 3

```

GLOBAL ROUTINE OUTXPH : NOVALUE =

++
FUNCTIONAL DESCRIPTION:

OUTXPH is called to output a word collected by the action of the Index flag. At the same time, it turns off the index flag. Note that this routine is currently NOT called when a .SUBINDEX, .INDEX, or .ENTRY command is being processed. In later enhancements it could be made possible to allow the Index flag to be active during the processing of one of these commands. However that is not the case at this time.

FORMAL PARAMETERS: None

IMPLICIT INPUTS: None

IMPLICIT OUTPUTS: None

ROUTINE VALUE:
COMPLETION CODES: None

SIDE EFFECTS: None

--

BEGIN

LOCAL
TSF_HOLD,
MRA_HOLD,
XTN;

!Preserve current buffer status.
TSF_HOLD = .TSF;
MRA_HOLD = .MRA;

!Set up buffers where Index flag is doing its work.
TSF = XTSF;
MRA = XMRA;

!Output the collected word only if there is one.

IF .TSF_INT_HL NEQ 0
THEN
BEGIN
!Allocate a transaction number for this entry.

XTN = .GCA_NORMAL_XTN;
GCA_NORMAL_XTN = .GCA_NORMAL_XTN + 1; !Bump for next index entry

!Now associate the transaction number with the entry.
TSF_FIRST_XTN = .XTN;
TSF_LAST_XTN = .XTN;
!And finally, attach the same transaction number to the
!word in the text to which this applies.

IF .SCA_WRD_F_XTN EQL 0
THEN

```

: 302 0428 3          SCA_WRD_F_XTN = .XTN;
: 303 0429 3
: 304 0430 3          SCA_WRD_L_XTN = .XTN;
: 305 0431 3          !Make this TSF something that goes into the index.
: 306 0432 3          TSF_INDEX = TRUE;
: 307 0433 3          !And now go output this line.
: 308 0434 3          OUTLIN (FALSE);
: 309 0435 3          END;
: 310 0436 3
: 311 0437 3          !Retrieve previous buffer status.
: 312 0438 3          TSF = .TSF_HOLD;
: 313 0439 3          MRA = .MRA_HOLD;
: 314 0440 3          !Turn off the index flag now, and that's it until next time.
: 315 0441 3          !Note that SCA_X_FLAG is used only when the index flag is
: 316 0442 3          !active. Failure to turn it off will cause the program to
: 317 0443 3          !lose coordination with Index flag processing. Typical
: 318 0444 3          !symptoms of this problem include the index table getting too
: 319 0445 3          !large, or, even more obscurely, normal text being rejected
: 320 0446 3          !because it's too complicated.
: 321 0447 3          SCA_X_FLAG = FALSE;
: 322 0448 3          RETURN;
: 323 0449 3          END;

```

!End of OUTXPH

			00FC 00000	.ENTRY	OUTXPH, Save R2,R3,R4,R5,R6,R7	: 0371
	57	00000000G	EF 9E 00002	MOVAB	GCA+168, R7	
	56	00000000G	EF 9E 00009	MOVAB	MRA, R6	
	55	00000000G	EF 9E 00010	MOVAB	TSF, R5	
	54	00000000G	EF 9E 00017	MOVAB	SCA+296, R4	
	53		65 D0 0001E	MOVL	TSF, TSF_HOLD	: 0405
	52		66 D0 00021	MOVL	MRA, MRA_HOLD	: 0406
	65	00000000G	EF 9E 00024	MOVAB	XTSF, TSF	: 0408
	66	00000000G	EF 9E 0002B	MOVAB	XMRA, MRA	: 0409
	50		65 D0 00032	MOVL	TSF, R0	: 0412
			60 D5 00035	TSTL	(R0)	
			25 13 00037	BEQL	2\$	
	51		67 D0 00039	MOVL	GCA+168, XTN	: 0417
			67 D6 0003C	INCL	GCA+168	: 0418
	38	A0	51 D0 0003E	MOVL	XTN, 56(R0)	: 0421
	3C	A0	51 D0 00042	MOVL	XTN, 60(R0)	: 0422
			64 D5 00046	TSTL	SCA+296	: 0426
			03 12 00048	BNEQ	1\$	
	64		51 D0 0004A	MOVL	XTN, SCA+296	: 0428
	04	A4	51 D0 0004D 1\$:	MOVL	XTN, SCA+300	: 0430
	14	A0	01 D0 00051	MOVL	#1, 20(R0)	: 0432
			7E D4 00055	CLRL	-(SP)	: 0434
	00000000G	EF	01 FB 00057	CALLS	#1, OUTLIN	
		65	53 D0 0005E 2\$:	MOVL	TSF_HOLD, TSF	: 0438
		66	52 D0 00061	MOVL	MRA_HOLD, MRA	: 0439
		FF74	C4 D4 00064	CLRL	SCA+156	: 0447
			04 00068	RET		: 0449

; Routine Size: 105 bytes, Routine Base: \$CODE\$ + 0115

OUTXHR
V04-000

Enters characters into index flag buffer
Module Level Declarations

H 15
16-Sep-1984 01:23:53
14-Sep-1984 13:07:35

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

Page 10
(5)

: 324 0450 1
: 325 0451 1 END .end of module
: 326 0452 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	382	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	40	3	86	00:00.3

COMMAND QUALIFIERS

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

: Size: 382 code + 0 data bytes
: Run Time: 00:08.5
: Elapsed Time: 00:19.5
: Lines/CPU Min: 3209
: Lexemes/CPU-Min: 17112
: Memory Used: 91 pages
: Compilation Complete

NEWSPAG LIS	NODOPX LIS	OFT LIS	OUTXT LIS
NDXURS LIS	NOTE LIS	OUTLIN LIS	PACK LIS
NM LIS	OUTXHR LIS	NDXXTN LIS	OUTCHA LIS
OUTHDR LIS			