





```

1 0001 0 %TITLE 'Process character termination.'
2 0002 0 MODULE ENDCHR ( IDENT = 'v04-000'
3 P 0003 0 %BLISS32 [ , ADDRESSING_MODE ( EXTERNAL = LONG_RELATIVE,
4 0004 0 NONEXTERNAL = LONG_RELATIVE) ]
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
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28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 **
32 0032 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
33 0033 1
34 0034 1 ABSTRACT: Put character and 'emphasis' indicators into the MRA.
35 0035 1
36 0036 1
37 0037 1 ENVIRONMENT: Transportable
38 0038 1
39 0039 1 AUTHOR: R.W.Friday
40 0040 1
41 0041 1 CREATION DATE: May, 1978
42 0042 1

```

ENDCHR  
V04-000

Process character termination.  
Revision History

M 15  
16-Sep-1984 00:23:49  
14-Sep-1984 13:06:07

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

Page 2  
(2)

```
.. 44      0043 1 %SBTTL 'Revision History'
.. 45      0044 1
.. 46      0045 1   MODIFIED BY:
.. 47      0046 1
.. 48      0047 1       009      REM00009      Ray Marshall      13-Sep-1983
.. 49      0048 1       Conditionalized some of the logic added in the previous edit
.. 50      0049 1       level so that it will properly build RUNOFF images.
.. 51      0050 1       Modified the way we look at the character output. We strip
.. 52      0051 1       off the high order bit so we can still check in the same
.. 53      0052 1       way if is printable.
.. 54      0053 1
.. 55      0054 1       008      KFA00008      Ken Alden      09-Sep-1983
.. 56      0055 1       For DSRPLUS: Improved functionality for passthrough.
.. 57      0056 1
.. 58      0057 1       007      KFA00007      Ken Alden      16-Mar-1983
.. 59      0058 1       For DSRPLUS: added functionality for passthrough flag.
.. 60      0059 1
.. 61      0060 1       006      KAD00006      Keith Dawson   07-Mar-1983
.. 62      0061 1       Global edit of all modules. Updated module names, idents,
.. 63      0062 1       copyright dates. Changed require files to BLISS library.
.. 64      0063 1
.. 65      0064 1  !--
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: 67 0065 1 %SBTTL 'Module Level Declarations'
: 68 0066 1
: 69 0067 1
: 70 0068 1 TABLE OF CONTENTS:
: 71 0069 1
: 72 0070 1
: 73 0071 1 INCLUDE FILES:
: 74 0072 1
: 75 0073 1
: 76 0074 1 LIBRARY 'NXPOR:XPORT'; ! XPORT Library
: 77 0075 1 REQUIRE 'REQ:RNODEF'; ! RUNOFF variant definitions
: 78 0206 1
: 79 U 0207 1 %IF DSRPLUS %THEN
: 80 U 0208 1 LIBRARY 'REQ:DPLLIB'; ! DSRPLUS BLISS Library
: 81 0209 1 %ELSE
: 82 0210 1 LIBRARY 'REQ:DSRLIB'; ! DSR BLISS Library
: 83 0211 1 %FI
: 84 0212 1
: 85 0213 1
: 86 0214 1 MACROS:
: 87 0215 1
: 88 0216 1
: 89 0217 1 EQUATED SYMBOLS:
: 90 0218 1
: 91 0219 1
: 92 0220 1 EXTERNAL LITERAL
: 93 0221 1 RINTES : UNSIGNED (8);
: 94 0222 1
: 95 0223 1
: 96 0224 1 OWN STORAGE:
: 97 0225 1
: 98 0226 1
: 99 0227 1 EXTERNAL REFERENCES:
100 0228 1
101 0229 1
102 0230 1 EXTERNAL
103 0231 1 GCA : GCA_DEFINITION,
104 0232 1 IRAC : IRAC_DEFINITION,
105 0233 1 MRA : REF_FIXED_STRING,
106 0234 1 SCA : SCA_DEFINITION,
107 0235 1 TSF : TSF_DEFINITION;
108 0236 1
109 0237 1 EXTERNAL LITERAL !Error messages
110 0238 1 RNFLTC;
111 0239 1
112 0240 1 EXTERNAL ROUTINE
113 0241 1 ENDWRD,
114 0242 1 ERMS,
115 0243 1 FCIMRA,
: 116 0244 1 OUTXHR;

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118 0245 1 GLOBAL ROUTINE ENDCHR (KHAR) : NOVALUE =
119 0246 1
120 0247 1 |++
121 0248 1 | FUNCTIONAL DESCRIPTION:
122 0249 1 |
123 0250 1 |     ENDCHR takes KHAR and puts it, along with bolding and underlining
124 0251 1 |     codes, into the MRA. However, the functioning is somewhat more
125 0252 1 |     complex than that. Basically, KHAR must be held up for one
126 0253 1 |     character, so that overstriking can be handled correctly.
127 0254 1 |
128 0255 1 | FORMAL PARAMETERS:
129 0256 1 |
130 0257 1 |     KHAR is the character to be output when ENDCHR gets called again.
131 0258 1 |
132 0259 1 | IMPLICIT INPUTS:      None
133 0260 1 |
134 0261 1 | IMPLICIT OUTPUTS:    None
135 0262 1 |
136 0263 1 | ROUTINE VALUE:
137 0264 1 | COMPLETION CODES:    None
138 0265 1 |
139 0266 1 | SIDE EFFECTS: None
140 0267 1 |
141 0268 1 | --
142 0269 1 |
143 0270 2 BEGIN
144 0271 2 IF .KHAR EQL RINTES
145 0272 2 THEN
146 0273 2
147 0274 2     IF .SCA_WRD_CPEND EQL RINTES
148 0275 2     THEN
149 0276 2     RETURN
150 0277 2     ELSE
151 0278 2     (0)
152 0279 2 ELSE
153 0280 2     IF .SCA_X_FLAG
154 0281 2     THEN !Send a character to the <INDEX flag> buffer.
155 0282 2     OUTXHR (.KHAR);
156 0283 2
157 0284 2 !Force out previous character
158 0285 2 IF .SCA_WRD_CPEND NEQ RINTES
159 0286 2 THEN
160 0287 2 BEGIN
161 0288 2 |
162 0289 2 | This is where dsr increment; some internal counters indicating
163 0290 2 | the length of the current word being built. First the sca_wrd_int_l
164 0291 2 | is incremented, then the ext_l. The external length is only
165 0292 2 | incremented if the character is not included within a passthrough
166 0293 2 | sequence or if the character is not printable.
167 0294 2 |
168 0295 2 FS WCHAR (MRA, .SCA_WRD_CPEND);
169 0296 2 SCA_WRD_INT_L = .SCA_WRD_INT_L + 1;
170 0297 2
171 0298 2 IF (.sca_wrd_cpend AND XX'7F') GEQ XC' '
172 0299 2 AND (.sca_wrd_cpend AND XX'7F') LSS XO'177'
173 U 0300 2 XIF DSRPLUS XTHEN
174 U 0301 2 AND .sca_pass EQL false

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175 0302 3 %FI
176 0303     THEN
177 0304     SCA_WRD_EXT_L = .SCA_WRD_EXT_L + 1
178 0305     ELSE
179 0306     IF .SCA_WRD_CPEND EQL %'010'           !Backspace?
180 0307     THEN
181 U 0308 %IF DSRPLUS %THEN
182 U 0309     |
183 U 0310     |   Back up for a backspace if we aren't in the middle
184 U 0311     |   of a passthrough.
185 U 0312     |
186 U 0313     |   BEGIN
187 U 0314     |   IF NOT .SCA_PASS
188 U 0315     |   THEN
189 0316 %FI
190 0317     SCA_WRD_EXT_L = .SCA_WRD_EXT_L - 1;
191 U 0318 %IF DSRPLUS %THEN
192 U 0319     END;
193 0320 %FI
194 0321     END;
195 0322
196 0323 SCA_WRD_CPEND = .KHAR;           !Save character for next time around
197 0324 !Clear single character force indicator.
198 0325 SCA_FRC_CHR = FALSE;
199 0326
200 0327 IF .KHAR EQL RINTES
201 0328 THEN
202 0329     RETURN
203 0330 ELSE
204 0331     SCA_SECT_EMPTY = FALSE;
205 0332
206 0333 !Check for spaces just before the first character of the first word on
207 0334 !the line. This can arise only in .NO FILL mode. The spaces are put
208 0335 !there by the routine OUTXSP, in the module SCANT. It's not necessary to
209 0336 !call FCIMRA in such a case because OUTXSP called it when it detected
210 0337 !the first space, in .NO FILL mode, starting a line. (The special
211 0338 !handling of such leading spaces lets RUNOFF convert lines full of just
212 0339 !spaces, in .NO FILL mode, to just a <CRLF> pair.) In addition,
213 0340 !propagation of change bars, the draft flag, and sequence numbers is
214 0341 !done here. (Logically some of this should be organized otherwise. But
215 0342 !that would make this run slower on -11s.)
216 0343 IF .SCA_FC           !First character of a word?
217 0344 THEN
218 0345     BEGIN
219 0346     SCA_WRD_BARS = .IRAC BARS;           !Propagate change bars at start of every word.
220 0347     SCA_WRD_BAR_CHR = .SCA_BAR_CHAR;   !...
221 0348
222 0349     SCA_WRD_DRAFT = .GCA_DEBUG_CND;     !Propagate draft character at start of each new line.
223 0350     SCA_WRD_DRAFT_F = .IRAC DRAFT_FLG;  !...
224 0351     SCA_WRD_ISEQN = .IRAC_ISEQN;        !Set up for /SEQUENCE at start of each new line.
225 0352     SCA_WRD_SEQN_F = .IRAC_SEQN_FLAC;    !...
226 0353     SCA_WRD_IPAGEN = .IRAC_IPAGEN;      !Page number part of sequence number.
227 0354
228 0355     SCA_FC = FALSE;                     !Next character is not the first of a word.
229 0356
230 0357     IF (.TSF_INT_HL EQL 0)
231 0358     THEN

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232 0359 4          IF (.SCA_WRD_LST_SP EQL 0)          !Leading spaces?
233 0360          THEN
234 0361          !No leading spaces, so this is just the first character to go into the MRA.
235 0362          FCIMRA ()
236 0363          ELSE
237 0364          !Count leading spaces at the start of the MRA. They are already physically there.
238 0365          BEGIN
239 0366          TSF_INT_HL = .TSF_INT_HL + .SCA_WRD_LST_SP;
240 0367          TSF_EXT_HL = .TSF_EXT_HL + .SCA_WRD_LST_SP;
241 0368          SCA_WRD_LST_SP = 0;          !Make sure they don't hang around.
242 0369          END;
243 0370          END;
244 0371          2
245 0372          !In the following check for buffer overflow, "10" comes from the fact that
246 0373          !the character plus emphasis coding will require at least 10 characters.
247 0374          !This avoids having constant checks whenever something is generated.
248 0375          !Having enough space for overstriking too is checked elsewhere.
249 0376          IF (.FS_MAXSIZE (MRA) - .FS_LENGTH (MRA)) LSS 10
250 0377          THEN
251 0378          BEGIN          !Character might not fit in storage
252 0379          !The effect of the error handling is that, besides an error message
253 0380          !being generated, an end of word is forced. ENDWRD will do
254 0381          !additional checking, eventually forcing out the line, and the text
255 0382          !causing the problem. When the return is made TSF will be empty,
256 0383          !and it will look just like a new word is being started. Then, the
257 0384          !remainder of the current line is skipped.
258 0385
259 0386          UNDECLARE KHAR;          'Don't conflict with the KHAR parameter
260 0387          EXTERNAL
261 0388          IRA : FIXED_STRING,          !Needed only for error message.
262 0389          KHAR;          ! ...
263 0390
264 0391          ERMS (RNFLTC, .FS_NEXT (IRA), .FS_LENGTH (IRA));
265 0392          !End this word, but suppress trailing spaces and justification
266 0393          ENDWRD (FALSE, FALSE, FALSE);
267 0394          WHILE .KHAR NEQ RINTES DO
268 0395          KCNS ();          !Skip to end of offending line.
269 0396          RETURN
270 0397          END;
271 0398
272 0399          SCA_FC CASE = FALSE;
273 0400          SCA_CONT = TRUE;          !.NO SPACE is legal now.
274 0401          SCA_WRD_LC_PNCT = FALSE;          !Turn off 'punctuation', for .PERIOD
275 0402
276 0403          !Remember bolding and underlining conditions
277 0404          SCA_WRD_NBITS = (.SCA_WRD_CNBITS OR .SCA_WRD_NBITS OR .SCA_WRD_ACNBITS);
278 0405
279 0406          !This select statement depends very much on the arrangement of the bolding
280 0407          !and underlining bits in SCA. The reason this code has been written
281 0408          !this way is so to make this routine run a bit faster, especially on -11s.
282 0409
283 0410          SELECT (.SCA_WRD_C_BLDUN OR .SCA_WRD_AC_BLUN) OF
284 0411          SET
285 0412
286 0413          [1,3]:
287 0414          !Bolding only or both underlining and bolding.
288 0415          BEGIN

```



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: 289 0416 3 SCA WRD INT L = .SCA WRD_INT_L + 3;
: 290 0417 FS_QCHAR (MRA, RINTES);
: 291 0418 FS_WCHAR (MRA, %C'B');
: 292 0419 FS_WCHAR (MRA, .KHAR);
: 293 0420 END;
: 294 0421
: 295 0422 [2,3]:
: 296 0423 !Underlining only or both underlining and bolding
: 297 0424 BEGIN
: 298 0425 SCA WRD INT L = .SCA WRD_INT_L + 3;
: 299 0426 FS_QCHAR (MRA, RINTES);
: 300 0427 FS_WCHAR (MRA, %C'U');
: 301 0428 FS_WCHAR (MRA, %C' ');
: 302 0429 END;
: 303 0430
: 304 0431 TES;
: 305 0432
: 306 0433 !Set up underlining/bolding as specified by ^& and \&, etc.
: 307 0434 SCA_WRD_C_BLDUN = .SCA_BLDUND AND .SCA_DO_BLDUND;
: 308 0435 SCA_WRD_ACNBITS = FALSE; !Additional functions
: 309 0436
: 310 0437 !Set up case translation rules.
: 311 0438 SCA_WRD_FC_UT = .SCA_FC_UT;
: 312 0439 SCA_WRD_OC_UT = .SCA_OC_UT;
: 313 0440 SCA_WRD_FC_LT = .SCA_FC_LT;
: 314 0441 SCA_WRD_OC_LT = .SCA_OC_LT;
: 315 0442 SCA_MNWRD_FC_UT = .SCA_MNFC_UT;
: 316 0443 SCA_MNWRD_OC_UT = .SCA_MNOC_UT;
: 317 0444 SCA_MNWRD_FC_LT = .SCA_MNFC_LT;
: 318 0445 SCA_MNWRD_OC_LT = .SCA_MNOC_LT;
: 319 0446 END;

```

!End of ENDCHR

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.TITLE ENDCHR Process character termination.
.IDENT \V04-000\

.EXTRN RINTES, GCA, IRAC
.EXTRN MRA, SCA, TSF, RNFLT
.EXTRN ENDWRD, ERMS, FCIMRA
.EXTRN OUTXHR, IRA, KHAR

.PSECT $CODE$,NOWRT,2

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```

03FC 0000
59 00000000G EF 9E 00002
58 00000000G EF 9E 00009
57 00000000G 8F 9A 00010
56 00000000G EF 9E 00014
55 00000000G EF 9E 0001B
54 00000000G EF 9E 00022
57 04 AC D1 0002B
08 12 0002F
52 D6 00031
57 64 D1 00033
OF 12 00036
04 00038

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.ENTRY ENDCHR, Save R2,R3,R4,R5,R6,R7,R8,R9 : 0245
MOVAB KHAR, R9
MOVAB MRA, R8
MOVZBL #RINTES, R7
MOVAB IRAC, R6
MOVAB IRA+12, R5
MOVAB SCA+280, R4
CLRL R2 : 0271
CMPL KHAR, R7
BNEQ 1$
INCL R2
CMPL SCA+280, R7 : 0274
BNEQ 2$
RET : 0276

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			0A	84	A4	E9	00039	1\$:	BLBC	SCA+156, 2\$	0280	
				04	AC	DD	0003D		PUSHL	KHAR	0282	
		00000000G	EF		01	FB	00040		CALLS	#1, OUTXHR		
			57		64	D1	00047	2\$:	CMPL	SCA+280, R7	0285	
					2F	13	0004A		BEQL	4\$		
			50		68	D0	0004C		MOVL	MRA, R0	0295	
		04	B0		64	90	0004F		MOVB	SCA+280, @4(R0)		
					A0	D6	00053		INCL	4(R0)		
					OC	A0	D6	00056	INCL	12(R0)		
					E4	A4	D6	00059	INCL	SCA+252	0296	
	20	64	07		00	ED	0005C		CMPZV	#0, #7, SCA+280, #32	0298	
					10	19	00061		BLSS	3\$		
0000007F	8F	64	07		00	ED	00063		CMPZV	#0, #7, SCA+280, #127	0299	
					05	18	0006C		BGEQ	3\$		
					E8	A4	D6	0006E	INCL	SCA+256	0304	
						08	11	00071	BRB	4\$		
			08		64	D1	00073	3\$:	CMPL	SCA+280, #8	0306	
					03	12	00076		BNEQ	4\$		
					E8	A4	D7	00078	DECL	SCA+256	0317	
			64		04	AC	D0	0007B	4\$:	MOVL	KHAR, SCA+280	0323
					CO	A4	D4	0007F	CLRL	SCA+216	0325	
			01		52	E9	00082		BLBC	R2, 5\$	0327	
						04	00085		RET			
					9C	A4	D4	00086	5\$:	CLRL	SCA+180	0331
			52	FF7C	C4	E9	00089		BLBC	SCA+148, 7\$	0343	
F8	A4	01	00		66	F0	0008E		INSV	IRAC, #0, #1, SCA+272	0346	
						D4	D0	00094	MOVL	@SCA+136, SCA+276	0347	
F0	A4	00000000G	EF	FC	01	EF	0009A		EXTZV	#2, #1, GCA+116, SCA+264	0349	
				F4	A4	18	A6	D0	000A4	MOVL	IRAC+24, SCA+268	0350
				EC	A4	08	A6	D0	000A9	MOVL	IRAC+8, SCA+260	0351
				04	A4	04	A6	D0	000AE	MOVL	IRAC+4, SCA+284	0352
				08	A4	0C	A6	D0	000B3	MOVL	IRAC+12, SCA+288	0353
						FF7C	C4	D4	000B8	CLRL	SCA+148	0355
			52	00000000G	EF	D0	000BC		MOVL	TSF, R2	0357	
					62	D5	000C3		TSTL	(R2)		
					19	12	000C5		BNEQ	7\$		
			53	34	A4	D0	000C7		MOVL	SCA+332, R3	0359	
					09	12	000CB		BNEQ	6\$		
		00000000G	EF		00	FB	000CD		CALLS	#0, FCIMRA	0362	
					0A	11	000D4		BRB	7\$		
			62		53	C0	000D6	6\$:	ADDL2	R3, (R2)	0366	
			04	A2	53	C0	000D9		ADDL2	R3, 4(R2)	0367	
						A4	D4	000DD	CLRL	SCA+332	0368	
			50		68	D0	000E0	7\$:	MOVL	MRA, R0	0376	
					0A	C1	000E3		ADDL3	#10, 12(R0), R1		
51			OC		0A	D1	000E8		CMPL	8(R0), R1		
			51		3A	18	000EC		BGEQ	11\$		
					65	DD	000EE		PUSHL	IRA+12	0391	
					F8	A5	DD	000F0	PUSHL	IRA+4		
					00000000G	8F	DD	000F3	PUSHL	#RNFLTC		
		00000000G	EF		03	FB	000F9		CALLS	#3, ERMS		
					7E	7C	00100		CLRQ	-(SP)	0393	
					7E	D4	00102		CLRL	-(SP)		
		00000000G	EF		03	FB	00104		CALLS	#3, ENQWRD		
			57		69	D1	0010B	8\$:	CMPL	KHAR, R7	0394	
					01	12	0010E		BNEQ	9\$		
					04	00110			RET			

						65	D5	00111	9\$:	TSTL	IRA+12	0395
						08	14	00113		BGTR	10\$	
					69	57	9A	00115		MOVZBL	R7, KHAR	
					65	01	CE	00118		MNEGL	#1, IRA+12	
						EE	11	0011B		BRB	8\$	
					69	B5	9A	0011D	10\$:	MOVZBL	@IRA+4, KHAR	
						F8	A5	00121		INCL	IRA+4	
						F8	65	00124		DECL	IRA+12	
						E3	11	00126		BRB	8\$	
						B8	A4	00128	11\$:	CLRL	SCA+208	0399
			8C	A4		01	D0	0012B		MOVL	#1, SCA+164	0400
						30	A4	0012F		CLRL	SCA+328	0401
			AC	A4		A8	A4	00132		BISL3	SCA+192, SCA+196, R0	0404
		50		50		B0	A4	00138		BISL3	SCA+200, R0, SCA+192	
52	A8	A4		02			00	0013E		EXTZV	#0, #2, SCA+196, R2	0410
50	AC	A4		02			00	00144		EXTZV	#0, #2, SCA+200, R0	
	B0	A4		52			50	0014A		BISL2	R0, R2	
				01			52	0014D		CMPL	R2, #1	0413
							05	00150		BEQL	12\$	
				03			52	00152		CMPL	R2, #3	
							28	00155		BNEQ	13\$	
			E4	A4			03	00157	12\$:	ADDL2	#3, SCA+252	0416
				50			68	0015B		MOVL	MRA, R0	0417
				51			A0	0015E		MOVAB	(R0), R1	
			00	B1		04	57	00162		MOVB	R7, @0(R1)	
							61	00166		INCL	(R1)	
							OC	00168		INCL	12(R0)	
			00	B1		42	8F	0016B		MOVB	#66, @0(R1)	0418
							61	00170		INCL	(R1)	
							OC	00172		INCL	12(R0)	
			00	B1		04	AC	00175		MOVB	KHAR, @0(R1)	0419
							61	0017A		INCL	(R1)	
							OC	0017C		INCL	12(R0)	
				02			52	0017F	13\$:	CMPL	R2, #2	0422
							2C	00182		BLSS	14\$	
				03			52	00184		CMPL	R2, #3	
							27	00187		BGTR	14\$	
			E4	A4			03	00189		ADDL2	#3, SCA+252	0425
				50			68	0018D		MOVL	MRA, R0	0426
				51			A0	00190		MOVAB	4(R0), R1	
			00	B1		04	57	00194		MOVB	R7, @0(R1)	
							51	00198		INCL	(R1)	
							OC	0019A		INCL	12(R0)	
			00	B1		55	8F	0019D		MOVB	#85, @0(R1)	0427
							61	001A2		INCL	(R1)	
							OC	001A4		INCL	12(R0)	
			00	B1			20	001A7		MOVB	#32, @0(R1)	0428
							61	001AB		INCL	(R1)	
							OC	001AD		INCL	12(R0)	
			50				00	001B0	14\$:	EXTZV	#0, #2, SCA+152, R0	0434
			51				00	001B6		EXTZV	#0, #2, SCA+168, R1	
							51	001BC		MCOML	R1, R1	
							51	001BF		BICB2	R1, R0	
			02				50	001C2		INSV	R0, #0, #2, SCA+196	
AC	A4			00			A4	001C8		CLRL	SCA+200	0435
							F8	001CB		MOVL	SCA, SCA+16	0438
							FEF8	001D2		MOVL	SCA+4, SCA+24	0439
							FF00					

ENDCHR  
V04-000

Process character termination.  
Module Level Declarations

H 16  
16-Sep-1984 00:23:49 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 13:06:07 [RUNOFF.SRC]ENDCHR.BLI;1

Page 10  
(4)

FEFC	C4	FEF0	C4	DO	001D9	MOVL	SCA+8,	SCA+20
FF04	C4	FEF4	C4	DO	001E0	MOVL	SCA+12,	SCA+28
FF28	C4	FF18	C4	DO	001E7	MOVL	SCA+48,	SCA+64
FF30	C4	FF1C	C4	DO	001EE	MOVL	SCA+52,	SCA+72
FF2C	C4	FF20	C4	DO	001F5	MOVL	SCA+56,	SCA+68
FF34	C4	FF24	C4	DO	001FC	MOVL	SCA+60,	SCA+76
				04	00203	RET		

: 0440  
: 0441  
: 0442  
: 0443  
: 0444  
: 0445  
: 0446

; Routine Size: 516 bytes, Routine Base: \$CODE\$ + 0000

: 320 0447 1  
: 321 0448 1 END  
: 322 0449 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	516	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	74	5	86	00:00.3

COMMAND QUALIFIERS

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

; Size: 516 code + 0 data bytes  
; Run Time: 00.12.4  
; Elapsed Time: 00:33.>  
; Lines/CPU Min: 2172  
; Lexemes/CPU-Min: 22040  
; Memory Used: 149 pages  
; Compilation Complete

0340 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

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