



```

AAAAAA  RRRRRRRR  EEEEEEEEEE  CCCCCCCC
AAAAAA  RRRRRRRR  EEEEEEEEEE  CCCCCCCC
AA      AA  RR      RR  EE      CC
AA      AA  RR      RR  EE      CC
AA      AA  RR      RR  EE      CC
AA      AA  RR      RR  EE      CC
AA      AA  RRRRRRRR  EEEEEEEE  CC
AA      AA  RRRRRRRR  EEEEEEEE  CC
AAAAAAAAA  RR  RR  EE      CC
AAAAAAAAA  RR  RR  EE      CC
AA      AA  RR      RR  EE      CC
AA      AA  RR      RR  EE      CC
AA      AA  RR      RR  EEEEEEEEEE  CCCCCCCC
AA      AA  RR      RR  EEEEEEEEEE  CCCCCCCC

```

```

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
LLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLL  IIIIII  SSSSSSSS

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```

0001 0 MODULE AREC (
0002 0     IDENT = 'V04-000'
P 0003 0 %BLISS32[
P 0004 0     ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
0005 0     ]
0006 0     ) =
0007 1 BEGIN
0008 1
0009 1
0010 1 *****
0011 1 *
0012 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0028 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0029 1 *
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0031 1 *****
0032 1
0033 1
0034 1 **
0035 1 FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
0036 1
0037 1 ABSTRACT: Performs preliminary analysis on an uneaten string.
0038 1
0039 1
0040 1 ENVIRONMENT: Transportable
0041 1
0042 1 AUTHOR: R.W.Friday      CREATION DATE: May, 1978
0043 1

```

Revision History

:	45	0044	1	%SBTTL 'Revision History'
:	46	0045	1	
:	47	0046	1	MODIFIED BY:
:	48	0047	1	
:	49	0048	1	007 KFA00007 Ken Alden 07-Mar-1983
:	50	0049	1	Global edit of all modules. Updated module names, idents,
:	51	0050	1	copyright dates. Changed require files to BLISS library.
:	52	0051	1	
:	53	0052	1	--

Module Level Declarations

1 7  
15-Sep-1984 23:49:08  
14-Sep-1984 13:05:29

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]AREC.BLI;1 Page 3 (3)

```

: 55      0053 1 %SBTTL 'Module Level Declarations'
: 56      0054 1
: 57      0055 1
: 58      0056 1 : TABLE OF CONTENTS:
: 59      0057 1
: 60      0058 1
: 61      0059 1 : INCLUDE FILES:
: 62      0060 1
: 63      0061 1 LIBRARY 'NXPOR:XPOR';           ! XPORT Library
: 64      0062 1 REQUIRE 'REQ:RNODEF';         ! RUNOFF variant definitions
: 65      0193 1
: 66      U 0194 1 %IF DSRPLUS %THEN
: 67      U 0195 1 LIBRARY 'REQ:DPLLIB';         ! DSRPLUS BLISS Library
: 68      0196 1 %ELSE
: 69      0197 1 LIBRARY 'REQ:DSRLIB';         ! DSR BLISS Library
: 70      0198 1 %FI
: 71      0199 1
: 72      0200 1
: 73      0201 1 : EQUATED SYMBOLS:
: 74      0202 1
: 75      0203 1
: 76      0204 1 : OWN STORAGE:
: 77      0205 1
: 78      0206 1
: 79      0207 1 : EXTERNAL REFERENCES:
: 80      0208 1
: 81      0209 1
: 82      0210 1 EXTERNAL LITERAL
: 83      0211 1   RINTES : UNSIGNED (8);
: 84      0212 1
: 85      0213 1 EXTERNAL
: 86      0214 1   FNCT : FNCT_DEFINITION,
: 87      0215 1   FLGT : FLAG_TABLE [FLAG_COUNT],
: 88      0216 1   GCA : VECTOR [GCA_SIZE],
: 89      0217 1   IRA : FIXED_STRING,
: 90      0218 1   KHAR;

```



```

: 149 0276 4 OR (.KHAR EQL %'011') !tab?
: 150 0277 4 THEN
: 151 0278 4 !Yes, it was a special form of .BREAK.
: 152 0279 4 RETURN CF_BREAK;
: 153 0280 4
: 154 0281 4 !Two consecutive <CONTROL flag>s force a single one as a normal character.
: 155 0282 4
: 156 0283 4 IF .KHAR EQL .FLGT [CON_FLAG, FLAG_CHARACTER]
: 157 0284 4 THEN
: 158 0285 4 RETURN CF_CF; ! Two <CONTROL flag>s.
: 159 0286 4
: 160 0287 4 !See if it's a comment starting like '!' or '.;'.
: 161 0288 4
: 162 0289 4 IF (.FLGT [COM_FLAG, FLAG_ENABLED]
: 163 0290 4 AND (.KHAR EQL .FLGT [COM_FLAG, FLAG_CHARACTER]))
: 164 0291 4 OR (.KHAR EQL %';')
: 165 0292 4 THEN
: 166 0293 4 !Yes, it's a comment.
: 167 0294 4 RETURN CF_COMMENT;
: 168 0295 4
: 169 0296 4 !The last possibility is that it's a command (even though that's the
: 170 0297 4 !usual case).
: 171 0298 4
: 172 0299 4 IF LETTER (.KHAR)
: 173 0300 4 THEN
: 174 0301 4 RETURN CF_LETTER;
: 175 0302 4
: 176 0303 4 RETURN CF_OTHER; ! Not recognized.
: 177 0304 4 End ! End analysis of <CONTROL flag>.
: 178 0305 4 ELSE
: 179 0306 4 BEGIN ! Something other than <CONTROL flag>.
: 180 0307 4
: 181 0308 4 IF (.KHAR EQL %' ') !space?
: 182 0309 4 OR (.KHAR EQL %'011') !tab?
: 183 0310 4 THEN
: 184 0311 4 !First character is a space or tab.
: 185 0312 4 RETURN FIRST_SPACE;
: 186 0313 4
: 187 0314 4 IF .KHAR EQL %';'
: 188 0315 4 THEN
: 189 0316 4 !First character is a ';'.
: 190 0317 4 RETURN FIRST_SEMI;
: 191 0318 4
: 192 0319 4 END;
: 193 0320 4
: 194 0321 4 RETURN NOT_SPACE; ! None of the special cases tried above.
: 195 0322 4 END; !End of AREC

```

```

.TITLE AREC
.IDENT \V04-000\

.EXTRN RINTES, FNCT, FLGT
.EXTRN GCA, IRA, KHAR

.PSECT $CODE$,NOWRT,2

```

Label	Address	OpCode	OpType	OpData	Instruction	Comment	Address
		003C	00000		.ENTRY	AREC, Save R2,R3,R4,R5	0220
	55	00G	8F	9A	MOVZBL	#RINTES, R5	
	54	00000000G	EF	9E	MOVAB	KHAR, R4	
	53	00000000G	EF	9E	MOVAB	IRA+4, R3	
	52	00000000G	EF	9E	MOVAB	FLGT+80, R2	
	50		64	D0	MOVL	KHAR, R0	0248
	55		50	D1	CMPL	R0, R5	
			04	12	BNEQ	1\$	
	50		01	D0	MOVL	#1, R0	0251
			04	00026	RET		
00000000G EF	63		01	C3	SUBL3	#1, IRA+4, GCA	0254
	0E	00000000G	EF	E9	BLBC	FNCT+20, 2\$	0258
	FC		A2	50	CMPL	R0, FLGT+76	0259
			08	12	BNEQ	2\$	
	04	B4	A2	E9	BLBC	FLGT+4, 2\$	0260
	50		06	D0	MOVL	#6, R0	0263
			04	00043	RET		
	62		50	D1	CMPL	R0, FLGT+80	0267
			79	12	BNEQ	14\$	
	75	B8	A2	E9	BLBC	FLGT+8, 14\$	0268
			08	A3	TSTL	IRA+12	0271
			09	14	BGTR	3\$	
	08		55	9A	MOVZBL	R5, KHAR	
	A3		01	CE	MNEGL	#1, IRA+12	
			09	11	BRB	4\$	
	64	00	B3	9A	MOVZBL	@IRA+4, KHAR	
			63	D6	INCL	IRA+4	
			08	A3	DECL	IRA+12	
	50		64	D0	MOVL	KHAR, R0	0274
	55		50	D1	CMPL	R0, R5	
			0A	13	BEQL	5\$	
	20		50	D1	CMPL	R0, #32	0275
			05	13	BEQL	5\$	
	09		50	D1	CMPL	R0, #9	0276
			04	12	BNEQ	6\$	
	50		02	D0	MOVL	#2, R0	0279
			04	00079	RET		
	62		50	D1	CMPL	R0, FLGT+80	0283
			04	12	BNEQ	7\$	
	50		03	D0	MOVL	#3, R0	0285
			04	00082	RET		
	30	E8	A2	E9	BLBC	FLGT+56, 8\$	0289
	A2		50	D1	CMPL	R0, FLGT+128	0290
			05	13	BEQL	9\$	
	3B		50	D1	CMPL	R0, #59	0291
			04	12	BNEQ	10\$	
	50		04	D0	MOVL	#4, R0	0294
			04	00095	RET		
00000041	8F		50	D1	CMPL	R0, #65	0299
			09	19	BLSS	11\$	
0000005A	8F		50	D1	CMPL	R0, #90	
			12	15	BLEQ	12\$	
00000061	8F		50	D1	CMPL	R0, #97	
			0D	19	BLSS	13\$	
0000007A	8F		50	D1	CMPL	R0, #122	
			04	14	BGTR	13\$	
	50		05	D0	MOVL	#5, R0	0301



AREC  
V04-000

Routine AREC

M 7  
15-Sep-1984 23:49:08  
14-Sep-1984 13:05:29

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DISK\$VMSMASTER:[RUNOFF.SRC]AREC.BLI;1

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(4)

50	09	04 000BD	RET				
		D0 000BE	13\$:	MOVL	#9, R0		0303
20		04 000C1	RET				
	50	D1 000C2	14\$:	CMPL	R0, #32		0308
09		05 13 000C5	BEQL	15\$			
	50	D1 000C7	CMPL	R0, #9			0309
50		04 12 000CA	BNEQ	16\$			
	07	D0 000CC	15\$:	MOVL	#7, R0		0312
38		04 000CF	RET				
	50	D1 000D0	16\$:	CMPL	R0, #59		0314
50		04 12 000D3	BNEQ	17\$			
	08	D0 000D5	MOVL	#8, R0			0317
50		04 000D8	RET				
	0A	D0 000D9	17\$:	MOVL	#10, R0		0321
		04 000DC	RET				0322

: Routine Size: 221 bytes, Routine Base: \$CODE\$ + 0000

```

: 196      0323 1
: 197      0324 1 END
: 198      0325 0 ELUDOM

```

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	221	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	32	2	86	00:00.3

COMMAND QUALIFIERS

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

```

: Size:      221 code + 0 data bytes
: Run Time:  00:05.1

```



