

Shift current word in MRA to the left

L 3
16-Sep-1984 01:46:12
14-Sep-1984 13:08:04

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]SCL.BLI;1

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(1)

SETD
V04-

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0001 0 %TITLE 'Shift current word in MRA to the left'
0002 0 MODULE SCL (
0003 0     IDENT = 'V04-000'
P 0004 0 %BLISS32[
P 0005 0     ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
0006 0 ]
0007 0     ) =
0008 1 BEGIN
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 *
0030 1 *****
0031 1
0032 1
0033 1 **
0034 1 FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
0035 1
0036 1 ABSTRACT: Rearrange the MRA by moving the current word to the left.
0037 1
0038 1
0039 1 ENVIRONMENT: Transportable
0040 1
0041 1 AUTHOR: R.W.Friday      CREATION DATE: May, 1978
0042 1

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SCL
V04-000

Shift current word in MRA to the left
Revision History

M 3
16-Sep-1984 01:46:12
14-Sep-1984 13:08:04

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[RUNOFF.SRC]SCL.BLI;1 Page 2 (2)

SETC
V04-

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0043 1 XSBTTL 'Revision History'
0044 1
0045 1 MODIFIED BY:
0046 1
0047 1 002 REM00002 Ray Marshall 07-Mar-1983
0048 1 Global edit of all modules. Updated module names, idents,
0049 1 copyright dates. Changed require files to BLISS library.
0050 1
0051 1 !--

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: 54 0052 1 %SBTTL 'Module Level Declarations'
: 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:XPOR'; ! 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 OWN STORAGE:
: 79 0207 1
: 80 0208 1
: 81 0209 1 EXTERNAL REFERENCES:
: 82 0210 1
: 83 0211 1
: 84 0212 1 EXTERNAL
: 85 0213 1 MRA : REF FIXED STRING,
: 86 0214 1 SCA : SCA_DEFINITION,
: 87 0215 1 TSF : TSF_DEFINITION;
: 88 0216 1
: 89 0217 1 EXTERNAL ROUTINE
: 90 0218 1 GCSKIP;
: 91 0219 1

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93 0220 1 %SBTTL 'SCL --'
94 0221 1 GLOBAL ROUTINE scl : NOVALUE =
95 0222 1
96 0223 1 !++
97 0224 1 !FUNCTIONAL DESCRIPTION:
98 0225 1
99 0226 1 !See ABSTRACT for a sufficient explanation.
100 0227 1
101 0228 1 FORMAL PARAMETERS:      None
102 0229 1
103 0230 1 IMPLICIT INPUTS:      None
104 0231 1
105 0232 1 IMPLICIT OUTPUTS:     None
106 0233 1
107 0234 1 ROUTINE VALUE:
108 0235 1 COMPLETION CODES:      None
109 0236 1
110 0237 1 SIDE EFFECTS:          None
111 0238 1
112 0239 1 !--
113 0240 1
114 0241 2 BEGIN
115 0242 2
116 0243 2 LOCAL
117 0244 2     ptr,
118 0245 2     ptr_copy;
119 0246 2
120 0247 2     fs_init (mra);           !reset pointers and counters back to start
121 0248 2     tsf_int_hl = 0;         !Nothing in TSF yet.
122 0249 2     tsf_ext_hl = 0;
123 0250 2     tsf_int_vl = 0;         !...
124 0251 2
125 0252 2     IF .sca_wrd_int_l EQL 0 THEN ! If no shift require, then
126 0253 2     RETURN;                 ! exit.
127 0254 2
128 0255 2     gcskip (.sca_spacing - 1); !Generate intermediate code for skipping.
129 0256 2
130 0257 2     INCR i FROM 1 TO .sca_lm DO
131 0258 2         (fs_wchar (mra, %C' ')); !Fill out left margin with spaces.
132 0259 2
133 0260 2     tsf_int_hl = .tsf_int_hl + .sca_lm;
134 0261 2     tsf_ext_hl = .sca_lm;
135 0262 2     ptr = .fs_next (mra);       !The current word will start here eventually.
136 0263 2     ptr_copy = .fs_next (mra);
137 0264 2
138 0265 2     INCR i FROM 1 TO (.sca_wrd_int_l) DO
139 0266 2         BEGIN                 !move the current word a character at a time.
140 0267 2             ! NOTE: This could have been coded using fs_wchar, and forgetting
141 0268 2             !         about using ptr_copy and hold_char; however, that uncovered a
142 0269 2             !         compiler bug. Also, this generates more efficient object code.
143 0270 2
144 0271 2         LOCAL
145 0272 2             hold_char;
146 0273 2
147 0274 2         hold_char = CHSRCHAR_A (sca_wrd_ptr);
148 0275 2         CHSWCHAR A (.hold_char, ptr_copy);
149 0276 2         fs_length (mra) = .fs_length (mra) + 1;

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0277 2 END;
0278 2
0279 2 fs_next (mra) = .ptr_copy;
0280 2 scā_wrd_pntr = .ptr;
0281 2 RETURN;
0282 1 END;

!re-establish pointer to SCA_WRD.
!End of SCL

.TITLE SCL Shift current word in MRA to the left
.IDENT \V04-000\

.EXTRN MRA, SCA, TSF, GCSKIP

.PSECT \$CODE\$,NOWRT,2

				C3FC 00000	.ENTRY SCL, Save R2,R3,R4,R5,R6,R7,R8,R9	: 0221
	59	00000000G	EF	9E 00002	MOVAB TSF, R9	:
	58	00000000G	EF	9E 00009	MOVAB MRA, R8	:
	57	00000000G	EF	9E 00010	MOVAB SCA+248, R7	:
	50		68	D0 00017	MOVL MRA, R0	: 0247
			0C	A0 D4 0001A	CLRL 12(R0)	:
	60		10	A0 9E 0001D	MOVAB 16(R0), (R0)	:
	04	A0	60	D0 00021	MOVL (R0), 4(R0)	:
	50		69	D0 00025	MOVL TSF, R0	:
			60	7C 00028	CLRQ (R0)	: 0248
			18	A0 D4 0002A	CLRL 24(R0)	: 0250
			04	A7 D5 0002D	TSTL SCA+252	: 0252
				5A 13 00030	BEQL 5\$:
7E	84	B7	01	C3 00032	SUBL3 #1, @SCA+124, -(SP)	: 0255
	00000000G	EF	01	FB 00037	CALLS #1, GCSKIP	:
			53	FF7C D7 D0 0003E	MOVL @SCA+116, R3	: 0257
			50	68 D0 00043	MOVL MRA, R0	: 0258
			52	04 A0 9E 00046	MOVAB 4(R0), R2	:
			51	68 D0 0004A	MOVL MRA, R1	:
			50	D4 0004D	CLRL 1	:
			09	11 0004F	BRB 2\$:
	00	B2	20	90 00051 1\$:	MOVB #32, @0(R2)	:
			62	D6 00055	INCL (R2)	:
			0C	A1 D6 00057	INCL 12(R1)	:
F3		50	53	F3 0005A 2\$:	AOBLEQ R3, 1, 1\$: 0257
		50	69	D0 0005E	MOVL TSF, R0	: 0258
		60	53	C0 00061	ADDL2 R3, (R0)	: 0260
	04	A0	53	D0 00064	MOVL R3, 4(R0)	: 0261
		56	62	D0 00068	MOVL (R2), PTR	: 0262
		50	62	D0 0006B	MOVL (R2), PTR_COPY	: 0263
		54	04	A7 D0 0006E	MOVL SCA+252, R4	: 0265
			53	D4 00072	CLRL 1	:
			0C	11 00074	BRB 4\$:
	55	00	B7	9A 00076 3\$:	MOVZBL @SCA+248, HOLD_CHAR	: 0274
			67	D6 0007A	INCL SCA+248	:
	80		55	90 0007C	MOVB HOLD_CHAR, (PTR_COPY)+	: 0275
			0C	A1 D6 0007F	INCL 12(RT)	: 0276
F0		53	54	F3 00082 4\$:	AOBLEQ R4, 1, 3\$: 0265
		62	50	D0 00086	MOVL PTR_COPY, (R2)	: 0279
		67	56	D0 00089	MOVL PTR, SCA+248	: 0280
			04	0008C 5\$:	RET	: 0282

SCL
V04-000

Shift current word in MRA to the left
SCL --

D 4
16-Sep-1984 01:46:12
14-Sep-1984 13:03:04

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]SCL.BLI;1 Page 6 (4)

SETT
V04-

: Routine Size: 141 bytes, Routine Base: \$CODE\$ + 0000

: 156 0283 1
: 157 0284 1 END 'End of module
: 158 0285 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	141	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	20	1	86	00:00.2

COMMAND QUALIFIERS

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

: Size: 141 code + 0 data bytes
 : Run Time: 00:04.9
 : Elapsed Time: 00:17.6
 : Lines/CPU Min: 3482
 : Lexemes/CPU-Min: 16460
 : Memory Used: 57 pages
 : Compilation Complete

Terminal Window 1	Terminal Window 2	Terminal Window 3	Terminal Window 4	Terminal Window 5	Terminal Window 6	Terminal Window 7	Terminal Window 8	Terminal Window 9	Terminal Window 10	Terminal Window 11	Terminal Window 12
Terminal Window 13	Terminal Window 14	Terminal Window 15	Terminal Window 16	Terminal Window 17	Terminal Window 18	Terminal Window 19	Terminal Window 20	Terminal Window 21	Terminal Window 22	Terminal Window 23	Terminal Window 24
Terminal Window 25	Terminal Window 26	Terminal Window 27	Terminal Window 28	Terminal Window 29	Terminal Window 30	Terminal Window 31	Terminal Window 32	Terminal Window 33	Terminal Window 34	Terminal Window 35	Terminal Window 36
Terminal Window 37	Terminal Window 38	Terminal Window 39	Terminal Window 40	Terminal Window 41	Terminal Window 42	Terminal Window 43	Terminal Window 44	Terminal Window 45	Terminal Window 46	Terminal Window 47	Terminal Window 48
Terminal Window 49	Terminal Window 50	Terminal Window 51	Terminal Window 52	Terminal Window 53	Terminal Window 54	Terminal Window 55	Terminal Window 56	Terminal Window 57	Terminal Window 58	Terminal Window 59	Terminal Window 60
Terminal Window 61	Terminal Window 62	Terminal Window 63	Terminal Window 64	Terminal Window 65	Terminal Window 66	Terminal Window 67	Terminal Window 68	Terminal Window 69	Terminal Window 70	Terminal Window 71	Terminal Window 72
Terminal Window 73	Terminal Window 74	Terminal Window 75	Terminal Window 76	Terminal Window 77	Terminal Window 78	Terminal Window 79	Terminal Window 80	Terminal Window 81	Terminal Window 82	Terminal Window 83	Terminal Window 84
Terminal Window 85	Terminal Window 86	Terminal Window 87	Terminal Window 88	Terminal Window 89	Terminal Window 90	Terminal Window 91	Terminal Window 92	Terminal Window 93	Terminal Window 94	Terminal Window 95	Terminal Window 96
Terminal Window 97	Terminal Window 98	Terminal Window 99	Terminal Window 100	Terminal Window 101	Terminal Window 102	Terminal Window 103	Terminal Window 104	Terminal Window 105	Terminal Window 106	Terminal Window 107	Terminal Window 108
Terminal Window 109	Terminal Window 110	Terminal Window 111	Terminal Window 112	Terminal Window 113	Terminal Window 114	Terminal Window 115	Terminal Window 116	Terminal Window 117	Terminal Window 118	Terminal Window 119	Terminal Window 120
Terminal Window 121	Terminal Window 122	Terminal Window 123	Terminal Window 124	Terminal Window 125	Terminal Window 126	Terminal Window 127	Terminal Window 128	Terminal Window 129	Terminal Window 130	Terminal Window 131	Terminal Window 132
Terminal Window 133	Terminal Window 134	Terminal Window 135	Terminal Window 136	Terminal Window 137	Terminal Window 138	Terminal Window 139	Terminal Window 140	Terminal Window 141	Terminal Window 142	Terminal Window 143	Terminal Window 144