

BBBBBBBBBBBB		AAAAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL

```
BBBBBBBBB      AAAAAA      SSSSSSSS  MM      MM      000000  VV      VV      EEEEEEEEEEE
BBBBBBBBB      AAAAAA      SSSSSSSS  MM      MM      000000  VV      VV      EEEEEEEEEEE
BB      BB      AA      AA      SS      MMMM  MMMM  00      00  VV      VV      EE
BB      BB      AA      AA      SS      MMMM  MMMM  00      00  VV      VV      EE
BB      BB      AA      AA      SS      MM      MM      00      00  VV      VV      EE
BB      BB      AA      AA      SS      MM      MM      00      00  VV      VV      EE
BBBBBBBBB      AA      AA      SSSSSS  MM      MM      00      00  VV      VV      EEEEEEEEE
BBBBBBBBB      AA      AA      SSSSSS  MM      MM      00      00  VV      VV      EEEEEEEEE
BB      BB      AAAAAAAAAA      SS      MM      MM      00      00  VV      VV      EE
BB      BB      AAAAAAAAAA      SS      MM      MM      00      00  VV      VV      EE
BB      BB      AA      AA      SS      MM      MM      00      00  VV      VV      EE
BB      BB      AA      AA      SS      MM      MM      00      00  VV      VV      EE
BBBBBBBBB      AA      AA      SSSSSSSS  MM      MM      000000  VV      VV      EEEEEEEEEEE
BBBBBBBBB      AA      AA      SSSSSSSS  MM      MM      000000  VV      VV      EEEEEEEEEEE
```

```
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
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS
```



```

1 0001 0 MODULE BAS$MOVE (
2 0002 0 IDENT = '1-006'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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11 0011 1 *
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24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: BASIC-PLUS-2 Miscellaneous I/O
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains the routines called by compiled code
36 0036 1 for the MOVE FROM and MOVE TO statements.
37 0037 1
38 0038 1 ENVIRONMENT: VAX-11 User Mode
39 0039 1
40 0040 1 AUTHOR: John Sauter, CREATION DATE: 21-MAY-1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original.
45 0045 1 1-002 - Call BAS$$CB GET, so this module does not have to be in the
46 0046 1 sharable library. JBS 22-AUG-1979
47 0047 1 1-003 - Reverse the order of arguments to BAS$MOVE_BEG. JBS 04-SEP-1979
48 0048 1 1-004 - Add MOVE TO and MOVE_FROM entry points, which we will split later.
49 0049 1 JBS 30-NOV-1979
50 0050 1 1-005 - Channel zero should translate to the appropriate BASIC LUN (BAS$K_LUN_INPU).
51 0051 1 Call it an error if user calls with a negative channel, at the same
52 0052 1 time add 2 to lub$ilun_min to force bas$cb push to signal an
53 0053 1 error if LUNs -7 or -8 are being pushed, the later is a temporary
54 0054 1 fix for #0 syntax in BASIC until the standard comm. decides on the
55 0055 1 issue.
56 0056 1 1-006 - Undo 5. We can now do I/O to #0, because BAS$PUT will use foreign
57 0057 1 buffer mechanism to do PUTs to #0. FM 9-JUL-81.

```

! File: BAS\$MOVE.B32 EDIT:FM1006

BAS\$MOVE
1-006

I 4
16-Sep-1984 00:46:53
14-Sep-1984 11:55:21

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASMOVE.B32;1

Page 2
(1)

:	58	0058	1	!--
:	59	0059	1	
:	60	0060	1	!<BLF/PAGE>


```

62 0061 1 |
63 0062 1 | SWITCHES:
64 0063 1 |
65 0064 1 |
66 0065 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
67 0066 1 |
68 0067 1 |
69 0068 1 | LINKAGES:
70 0069 1 |
71 0070 1 |
72 0071 1 | REQUIRE 'RTLIN:OTSLNK';           ! Define linkages
73 0500 1 |
74 0501 1 |
75 0502 1 | TABLE OF CONTENTS:
76 0503 1 |
77 0504 1 |
78 0505 1 | FORWARD ROUTINE
79 0506 1 |     BASSMOVE_BEG : NOVALUE,       ! Start of MOVE statement
80 0507 1 |     BASSMOVE_END : NOVALUE;       ! End of MOVE statement
81 0508 1 |
82 0509 1 |
83 0510 1 | INCLUDE FILES:
84 0511 1 |
85 0512 1 |
86 0513 1 | REQUIRE 'RTLML:OTSLUB';           ! Get LUB definitions
87 0653 1 |
88 0654 1 | REQUIRE 'RTLML:OTSISB';           ! Get ISB definitions
89 0822 1 |
90 0823 1 | REQUIRE 'RTLIN:RTLPSECT';         ! Macros for defining psects
91 0918 1 |
92 0919 1 | LIBRARY 'RTLSTARLE';              ! System symbols
93 0920 1 |
94 0921 1 |
95 0922 1 | MACROS:
96 0923 1 |
97 0924 1 |     NONE
98 0925 1 |
99 0926 1 | EQUATED SYMBOLS:
100 0927 1 |
101 0928 1 |
102 0929 1 | GLOBAL BIND
103 0930 1 |     ROUTINE
104 0931 1 |     BASSMOVE_TO = BASSMOVE_BEG;
105 0932 1 |
106 0933 1 | GLOBAL BIND
107 0934 1 |     ROUTINE
108 0935 1 |     BASSMOVE_FROM = BASSMOVE_BEG;
109 0936 1 |
110 0937 1 |
111 0938 1 | PSECTS:
112 0939 1 |
113 0940 1 | DECLARE_PSECTS (BAS);             ! Declare psects for BASS facility
114 0941 1 |
115 0942 1 | OWN STORAGE:
116 0943 1 |
117 0944 1 |     NONE
118 0945 1 |
```

```

: 119      0946 1 | EXTERNAL REFERENCES:
: 120      0947 1 |
: 121      0948 1 |
: 122      0949 1 | EXTERNAL ROUTINE
: 123      0950 1 |     BAS$$CB_PUSH : JSB_CB_PUSH NOVALUE,      | Load register CCB
: 124      0951 1 |     BAS$$CB_POP  : JSB_CB_POP NOVALUE,        | Done with register CCB
: 125      0952 1 |     BAS$$CB_GET  : JSB_CB_GET NOVALUE,        | Load current CCB
: 126      0953 1 |     BAS$$STOP    : NOVALUE,                  | Signal fatal error
: 127      0954 1 |     BAS$$STOP_IO : NOVALUE,                  | Signal fatal I/O error
: 128      0955 1 |     BAS$$OPEN_ZERO : NOVALUE;                | OPEN channel 0
: 129      0956 1 |
: 130      0957 1 | +
: 131      0958 1 | | The following are the error codes used in this module.
: 132      0959 1 | -
: 133      0960 1 |
: 134      0961 1 | EXTERNAL LITERAL
: 135      0962 1 |     BAS$K_PROLOSSOR : UNSIGNED (8),          | Program lost, sorry
: 136      0963 1 |     BAS$K_IO_CHANOT : UNSIGNED (8),          | I/O channel not open
: 137      0964 1 |     BAS$K_ILC$IO_CHA : UNSIGNED (8);         | Illegal I/O channel

```



```
139 0965 1 GLOBAL ROUTINE BASSMOVE_BEG (      ! Start of MOVE statement
140 0966 1     DESC,                          ! Descriptor of buffer
141 0967 1     UNIT                          ! Channel to start MOVE on
142 0968 1 ) : NOVALUE =
143 0969 1
144 0970 1 ++
145 0971 1 FUNCTIONAL DESCRIPTION:
146 0972 1
147 0973 1     Start a MOVE statement on the specified channel. We do this
148 0974 1     by returning a descriptor of the buffer, which the compiled
149 0975 1     code will use when accessing the I/O buffer.
150 0976 1
151 0977 1 FORMAL PARAMETERS:
152 0978 1
153 0979 1     DESC.wq.r      Descriptor of the I/O buffer
154 0980 1     UNIT.rl.v    The channel whose buffer descriptor to return.
155 0981 1
156 0982 1 IMPLICIT INPUTS:
157 0983 1
158 0984 1     The LUB$W_RBUF_SIZE field of the LUB of the specified channel.
159 0985 1     Also, LUB$A_RBUF_ADR.
160 0986 1
161 0987 1 IMPLICIT OUTPUTS:
162 0988 1
163 0989 1     NONE
164 0990 1
165 0991 1 ROUTINE VALUE:
166 0992 1 COMPLETION CODES:
167 0993 1
168 0994 1     NONE
169 0995 1
170 0996 1 SIDE EFFECTS:
171 0997 1
172 0998 1     Signals if an error is encountered.
173 0999 1     BASS$CB_PUSH will signal if the channel number is invalid.
174 1000 1     Leaves the channel active.
175 1001 1
176 1002 1 --
177 1003 1
178 1004 2 BEGIN
179 1005 2
180 1006 2 BUILTIN FP;
181 1007 2
182 1008 2 GLOBAL REGISTER
183 1009 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
184 1010 2
185 1011 2 MAP
186 1012 2     DESC : REF BLOCK [8, BYTE];
187 1013 2
188 1014 2 LOCAL
189 1015 2     FMP : REF BLOCK [, BYTE],
190 1016 2     ACTUAL_UNIT;
191 1017 2
192 1018 2 ++
193 1019 2     Store away FP
194 1020 2
195 1021 2     FMP = .FP;
```

```

196 1022 2 !+
197 1023 2 !- If the unit is zero, use the appropriate unit for input side of channel 0.
198 1024 2 !- Load register CCB with a pointer to the LUB/ISB/RAB for the channel.
199 1025 2 !- Signal an invalid channel number.
200 1026 2 !-
201 1027 2 !- IF (.UNIT LSS 0) THEN BAS$$STOP(BAS$K_ILLIO_CHA);
202 1028 2 !- ACTUAL_UNIT = (IF .UNIT EQL 0 THEN LUB$K_LUN_INPU ELSE .UNIT);
203 1029 2 !-
204 1030 2 !- BAS$$CB_PUSH (.ACTUAL_UNIT, LUB$K_ILUN_MIN);
205 1031 2 !- CCB [ISB$A_USER_FP] = .FMP [SF$L_SAVE_FP];
206 1032 2 !+
207 1033 2 !- If the channel number is zero, make sure it is open.
208 1034 2 !-
209 1035 2 !- IF ( NOT .CCB[LUB$V_OPENED] )
210 1036 2 !- THEN
211 1037 2 !-
212 1038 2 !- IF (.ACTUAL_UNIT EQL LUB$K_LUN_INPU)
213 1039 2 !- THEN
214 1040 2 !- BEGIN
215 1041 2 !- BAS$$OPEN_ZERO(.FMP[SF$L_SAVE_FP])
216 1042 2 !- END
217 1043 2 !- ELSE
218 1044 2 !- BEGIN
219 1045 2 !- BAS$$STOP_IO(BAS$K_IO_CHANOT);
220 1046 2 !- END;
221 1047 2 !-
222 1048 2 !+
223 1049 2 !- Mark this as a MOVE statement.
224 1050 2 !-
225 1051 2 !- CCB [ISB$B_STTM_TYPE] = ISB$K_ST_TY_MOV;
226 1052 2 !-
227 1053 2 !+
228 1054 2 !- Return the caller a descriptor of the buffer.
229 1055 2 !-
230 1056 2 !- DESC [DSC$W_LENGTH] = .CCB [LUB$W_RBUF_SIZE];
231 1057 2 !- DESC [DSC$B_DTYPE] = DSC$K_DTYPE_Z;
232 1058 2 !- DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
233 1059 2 !- DESC [DSC$A_POINTER] = .CCB [LUB$A_RBUF_ADR];
234 1060 2 !+
235 1061 2 !- All done.
236 1062 2 !-
237 1063 2 !- RETURN
238 1064 1 !- END;

```

! end of BAS\$MOVE_BEG

```

.TITLE BAS$MOVE
.IDENT \1-006\

.EXTRN BAS$$CB_PUSH, BAS$$CB_POP
.EXTRN BAS$$CB_GET, BAS$$STOP
.EXTRN BAS$$STOP_IO, BAS$$OPEN_ZERO
.EXTRN BAS$K_PROCOSSOR
.EXTRN BAS$K_IO_CHANOT
.EXTRN BAS$K_ILCIO_CHA

.PSECT _BAS$CODE, NOWRT, SHR, PIC, 2

```


BASSMOVE
1-006

N 4
16-Sep-1984 00:46:53
14-Sep-1984 11:55:21

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASSMOVE.B32;1

Page 7
(3)

			080C	00000	.ENTRY	BASSMOVE_BEG, Save R2,R3,R11	:	0965
	53		5D	D0	MOVL	FP, FMP	:	1021
	52	08	AC	D0	MOVL	UNIT, R2	:	1027
			0B	18	BGEQ	1\$	:	
	7E	00G	8F	9A	MOVZBL	#BASSK_ILLIO_CHA, -(SP)	:	
00000000G	00		01	FB	CALLS	#1, BASS\$STOP	:	
			52	D5	TSTL	R2	:	1028
			03	12	BNEQ	2\$	:	
	52		07	CE	MNEGL	#7, ACTUAL_UNIT	:	
	50		08	CE	MNEGL	#8, R0	:	1030
		00000000G	00	16	JSB	BASS\$CB_PUSH	:	
FF4C	CB	0C	A3	D0	MOVL	12(FMP), -180(CCB)	:	1031
	20	FC	AB	E8	BLBS	-4(CCB), 4\$	:	1035
FFFFFFF9	8F		52	D1	CMPL	ACTUAL_UNIT, #-7	:	1038
			0C	12	BNEQ	3\$	:	
		0C	A3	DD	PUSHL	12(FMP)	:	1041
00000000G	00		01	FB	CALLS	#1, BASS\$OPEN_ZERO	:	
			0B	11	BRB	4\$	:	1040
	7E	00G	8F	9A	MOVZBL	#BASSK_IO_CHANOT, -(SP)	:	1045
00000000G	00		01	FB	CALLS	#1, BASS\$STOP_IO	:	
FF71	CB		2E	90	MOVB	#46, -143(CCB)	:	1051
	50	04	AC	D0	MOVL	DESC, R0	:	1056
	60	D2	AB	B0	MOVW	-46(CCB), (R0)	:	
	02	A0	8F	B0	MOVW	#256, 2(R0)	:	1057
	04	A0	EC	AB	MOVL	-20(CCB), 4(R0)	:	1059
			04	00068	RET		:	1064

; Routine Size: 105 bytes, Routine Base: _BASS\$CODE + 0000

; 239 1065 1


```
241 1066 1 GLOBAL ROUTINE BASS$MOVE_END          ! End of MOVE statement
242 1067 1 : NOVALUE =
243 1068 1
244 1069 1 ++
245 1070 1 FUNCTIONAL DESCRIPTION:
246 1071 1
247 1072 1      End a MOVE statement. This is needed so we know when all uses
248 1073 1      of the I/O buffer are done, so we can release the buffer after
249 1074 1      a CLOSE.
250 1075 1
251 1076 1 FORMAL PARAMETERS:
252 1077 1
253 1078 1      NONE
254 1079 1
255 1080 1 IMPLICIT INPUTS:
256 1081 1
257 1082 1      OTSS$A_CUR_LUB, the current logical unit. This had better be
258 1083 1      doing a MOVE statement.
259 1084 1
260 1085 1 IMPLICIT OUTPUTS:
261 1086 1
262 1087 1      NONE
263 1088 1
264 1089 1 ROUTINE VALUE:
265 1090 1 COMPLETION CODES:
266 1091 1
267 1092 1      NONE
268 1093 1
269 1094 1 SIDE EFFECTS:
270 1095 1
271 1096 1      Signals if there is no current I/O, or if the current I/O
272 1097 1      is not a MOVE statement.
273 1098 1
274 1099 1 --
275 1100 1
276 1101 2 BEGIN
277 1102 2
278 1103 2 GLOBAL REGISTER
279 1104 2      CCB = K_CCB_REG : REF BLOCK [, BYTE];
280 1105 2
281 1106 2 BASS$CB_GET ();
282 1107 2
283 1108 2 IF (.CCB EQL 0) THEN BASS$STOP (BASS$K_PROLOSSOR);
284 1109 2
285 1110 2 ++
286 1111 2 The channel might not be open due to a CLOSE at AST level. Give
287 1112 2 an error in this case. If we ignored this condition, the following
288 1113 2 GET or PUT would give the error, so we might as well give it as
289 1114 2 soon as possible.
290 1115 2 --
291 1116 2
292 1117 2 IF ( NOT .CCB [LUB$V_OPENED]) THEN BASS$STOP_IO (BASS$K_IO_CHANOT);
293 1118 2
294 1119 2 ++
295 1120 2 If the channel is not doing a MOVE statement we have a serious
296 1121 2 problem, probably a wild branch into the I/O list.
297 1122 2 --
```


BAS\$MOVE
1-006

C 5
16-Sep-1984 00:46:53
14-Sep-1984 11:55:21

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASMOVE.B32;1

Page 9
(4)

```
: 298      1123 2
: 299      1124 2      IF (.CCB [ISB$B_STTM_TYPE] NEQ ISB$K_ST_TY_MOV) THEN BAS$$STOP_IO (BAS$K_PROLOSSOR);
: 300      1125 2
: 301      1126 2      +
: 302      1127 2      | If all those tests succeed, pop the I/O system.
: 303      1128 2      |
: 304      1129 2      | BAS$$CB_POP ();
: 305      1130 2      |
: 306      1131 2      | +
: 307      1132 2      | All done.
: 308      1133 2      |
: 309      1134 1      RETURN
                        END;
                        ! end of BAS$MOVE_END
```

			0804 00000	.ENTRY	BAS\$MOVE_END, Save R2,R11	: 1066
52	00000000G	00	9E 00002	MOVAB	BAS\$\$STOP_IO, R2	
	00000000G	00	16 00009	JSB	BAS\$\$CB_GET	: 1106
		5B	D5 0000F	TSTL	CCB	: 1108
		0B	12 00011	BNEQ	1\$	
	7E	00G	8F 9A 00013	MOVZBL	#BAS\$K_PROLOSSOR, -(SP)	
00000000G	00	01	FB 00017	CALLS	#1, BAS\$\$STOP	
	07	FC	AB E8 0001E 1\$:	BLBS	-4(CCB), 2\$	: 1117
	7E	00G	8F 9A 00022	MOVZBL	#BAS\$K_IO_CHANOT, -(SP)	
62		01	FB 00026	CALLS	#1, BAS\$\$STOP_IO	
2E	FF71	CB	91 00029 2\$:	CMPB	-143(CCB), #48	: 1124
		07	13 0002E	BEQL	3\$	
	7E	00G	8F 9A 00030	MOVZBL	#BAS\$K_PROLOSSOR, -(SP)	
62		01	FB 00034	CALLS	#1, BAS\$\$STOP_IO	
	00000000G	00	16 00037 3\$:	JSB	BAS\$\$CB_POP	: 1129
		04	0003D	RET		: 1134

; Routine Size: 62 bytes, Routine Base: _BAS\$CODE + 0069

```
: 310      1135 1
: 311      1136 1 END
: 312      1137 1
: 313      1138 0 ELUDOM
                        ! end of module BAS$MOVE
```

BAS\$MOVE_FROM== BAS\$MOVE_BEG
BAS\$MOVE_TO== BAS\$MOVE_BEG

PSECT SUMMARY

Name	Bytes	Attributes
_BAS\$CODE	167	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

BAS\$MOVE
1-006

D 5
16-Sep-1984 00:46:53
14-Sep-1984 11:55:21

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASMOVE.B32;1

Page 10
(4)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
;\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	7	0	581	00:01.2

COMMAND QUALIFIERS

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

; Size: 167 code + 0 data bytes
; Run Time: 00:10.3
; Elapsed Time: 00:26.9
; Lines/CPU Min: 6661
; Lexemes/CPU-Min: 38985
; Memory Used: 127 pages
; Compilation Complete

0028 AH-BT13A-SE
VAX/VMS V4.0

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BASMD
LIS

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BASNOTIMP
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LIS

BASMSGGEN
LIS

BASONECHR
LIS

BASMOVE
LIS

BASNUM
LIS

BASNAMEAS
LIS

BASNUM
LIS