```
                *************************************************
                *   FOR loop in 68000
                *
                *   First Array Element to Process: TOP
                *   Last Array Element to Process: BOT
                *   The array: DATA
                *
                *   Used to Index into array: DO
                *   Used as Pointer to array: AO
                *
                *************************************************
                *
000000  00              DATA    DS    500          ;array of bytes
0001F4  0000             TOP    DC    0            ;first to process
0001F6  0000             BOT    DC    0            ;last to process
                *
                *
                                     ;other data
                                     ;and code
                *
                *
                *  Assumes TOP & BOT previously calculated
                *
0001FB  41F900000000            LEA    DATA,AO        ;set pointer
0001FE  3039000001F4            MOVE   TOP,DO         ;init index
000204  B079000001F6    LOOP    CMP    BOT,DO         ;check bounds
0002OA  6206             BHI.S   LABEL          ;end loop
002OC   42300000         CLR.B  O(AO,DO)       ;loop body
000210  60F2             BRA.S  LOOP            ;repeat
                LABEL
000212                   END
```

MODULE TRIAL;

  VAR
     DATA : ARRAY [1..500] OF CHAR;
     TOP, BOT, i : CARDINAL;
  BEGIN
    (* Assumes TOP & BOT have been previously calculated *)

     FOR i := TOP TO BOT DO