```
* ran32.s
* 2001-07-24
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* Program produces strings in the following format:
* 0xhhhhhhhh where h is a random hex digit
* I needed the digits in a C++ program I was writing at
* the time.
::
 %RAN               %random
 % 4294967296       2^32
 %*
 %>#                hxs_random
 $ "0x             "
 TOTEMPSWAP
* $ hxs -> $
 CODE
      GOSBVL      =PopASavptr      A[A]->#, pointers saved
      D0=A
      D0=D0+     10               D0->hex digits
      A=DAT0     8                A[8] = hex digits
* save in high A
      P=         16-8             loop 8 times
-     ASRC                        shift A right circular (saves 1 digit)
      P=P+1
      GONC        -               continue until P = 0
      C=DAT1     A
      D1=C                        D1->$
      D1=D1+     10+2*2           D1->first space in $
      LC(3)      #278
      CSRC                        now, C[S] = 8 and C[B] = 32 + 7
      D=C        B                D[B] = 32 + 7
* Convert each digit to ascii, make sure letters are small: a,b,c,d,e,f
--    LC(2)      #39
      A=0        B
      ASLC
      CAEX       P
      ?C<=A      P                less than #A?
      GOYES       + >-------+     yes
      C=C+D      B          |     add constant to make lowercase
+     DAT1=C     B <-------+      write digit
      D1=D1+     2                D1->next
      C=C+1      S                continue until C[S] = 0
      GONC        --
      GOVLNG     =GETPTRLOOP      restore pointers, exit to rpl
ENDCODE
;
```