

**NAME**

GETCYC – Return the Pentium processor cycle count.

**SYNOPSIS**

**CALL GETCYC(T)**

T is the INTEGER\*8 cycle count returned

**DESCRIPTION**

This C routine issues an rdtsc assembler-language instruction [1] to retrieve the cycle count accumulated by a Pentium processor since its last reboot.

**BUGS**

This routine fails on machines that do not have a Pentium processor.

**LINKAGE**

gfortran source.f -L\${HOME}/lib -lmisc

**AUTHOR**

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**EXAMPLE**

```
      INTEGER*8 S,F
      CALL GETCYC(S)
      X=2.
      DO 1 I=1,10000000
          X=SQRT(3.-X)
1 CONTINUE
      CALL GETCYC(F)
      WRITE(6,903) F-S
903 FORMAT(I10)
      STOP
      END
```

This example produced the following output:

```
unix[1] a.out
      822339089
unix[2]
```

**REFERENCES**

[1] IA-32 Intel Architecture Software Developer's Manual, Volume 2 page 3-673 and Volume 3 page 14-22.