

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.