
Subject: 'timer' routine enclosed
Posted by [David L. Keller](#) on Thu, 30 Sep 1999 07:00:00 GMT
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I'll bet this has been done before (I seem to recall a 'Yorick' routine that may have inspired this one). But I couldn't find it, so I wrote it and now I'm sharing. Profuse on-line help should explain how to run it. Code is short, the help and doc are long.

-- Dave --

```
pro timer,ti,lbl,new=new
```

```
nmandparm = 2
IF n_params(0) lt nmandparm THEN BEGIN
QHELP:
  print," "
  print,"Key in:"
  print," timer,ti,lbl
  print,"Where:"
  print," Example:"
  print," timer,ti,'Start'
  print," mysubroutine,fake,args
  print," timer,ti,'Mysubroutine'
  print," c = a + b
  print," timer,ti,'Add'
  print," ;long section of code
  print," timer,ti,'Long section'"
  print," "
  print,"And then to view the timings you might wish to
use:"
  print," ptimer,ti"
  print," Mysubroutine    9.7179999"
  print," Add             2.4690001"
  print," Long section    2.0500000"
  print," "
  print,"To 'start over'"
  print," timer,ti,'new project',/new
  return
ENDIF

;DOESN'T EXIST YET? START OVER?
IF (nel(ti) eq 0) OR keyword_set(new) THEN BEGIN
  dubble = systime(1)
```

```

ti = {timertype,time:0.0D,label:string(lbl)}
ti.time = dubble
ENDIF ELSE BEGIN
    ;APPEND NEW ONE
    q=ti(0) & q.time=systime(1) & q.label=string(lbl)
    ti = [ti,q]
ENDELSE
END

```

```

pro ptimer,ti

```

```

nmandparm = 1
IF n_params(0) lt nmandparm THEN BEGIN
QHELP:
    print," "
    print,"Key in:"
    print," ptimer,ti
    print,"Where:"
    print," ti is a structure from 'timer'"
    print," "
    print,"Where:"
    print," Example:"
    print," timer,ti,'Start'
    print," mysubroutine,fake,args
    print," timer,ti,'Mysubroutine'
    print," c = a + b
    print," timer,ti,'Add'
    print," ;long section of code
    print," timer,ti,'Long section'"
    print," "
    print,"And then to view the timings you might wish to
use:"
    print," ptimer,ti"
    print," Mysubroutine    9.7179999"
    print," Add            2.4690001"
    print," Long section    2.0500000"
    print," "
    print,"To 'start over'"
    print," timer,ti,'new project',/new
    return
ENDIF

```

```

;print times from 'timer' routine
;'ti' is the 'timer' structure
vals = ti.time
diff = shift(vals,-1)-vals

```

```
FOR i=1,n_elements(vals)-1 DO BEGIN
  print,ti(i).label,diff(i-1)
ENDFOR
END
```
