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) It 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"
                       2.4690001"
  print," Add
  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) It 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"
                            9.7179999"
 print," Mysubroutine
 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) ĖNDFOR END