

Re: Calculating a program's run time

Source: <http://coding.derkeiler.com/Archive/Fortran/comp.lang.fortran/2005-10/msg00698.html>

- *From:* "Robert" <rjones0@xxxxxxxxxxxxx>
 - *Date:* 22 Oct 2005 15:20:27 -0700
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Random Programmer wrote:

- > Hi guys. I'm trying to get my program provide useful information about
- > how long it has been running.
- >
- > Does Fortran have any in-house commands that does this, or do I need to
- > find out the time the program starts/ends and subtract the two?
- >
- > What are the relevant commands for me to look up?
- >
- > Thanks.

Depending on your operating system, you could look at the execution queue via the appropriate monitor facility.

Sometimes though, the actual time taken is not so relevant as determining how much progress is made and how much more work is to be done and therefore roughly how long it is going to take to finish.

To that end, I sometimes put a display routine into a program to report for example, how many records have been read from the main input file, or how many iterations of the main significant procedure have been done at intervals based upon a power of 2. For example, display no of iterations and current time for the the first, second, fourth, eighth, sixteenth, etc iterations. If there is more than one phase to the program then a display can also be made to indicate when each phase is complete. Such displays can be useful in determining whether a program is getting stuck/clogged at a particular stage, so that you investigate the reasons more closely.

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