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## ELAPSED-TIME" in pc\_server logs and actual response time

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### Question

Is the ELAPSED-TIME in the pc\_server log a correct indication of GUI response time -- or is the actual response time comprised of multiple pc\_server log transactions and additional components?

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### Answer

There are three components to GUI response time:

1. the communication time from the PC to the server (after the user presses Enter or clicks a button which triggers communication with the server)
2. the time spent by the pc\_xxx\_cnxxx (or pc\_xxxx\_cnxxx) server program in processing the transaction, and
3. the communication time from the server to the PC (after which, the response displays on the PC screen).

The ELAPSED-TIME shown in the pc\_server log for the pc\_xxx\_cnxxx program which processes the transaction is the \*total\* pc\_server time for that particular transaction. The pc\_xxx\_cnxxx program calls other programs, but these programs are \*never\* pc\_xxx\_cnxxx programs, never appear in the pc\_server log, and never have ELAPSED-TIME values. A transaction from the PC initiates one and only one pc\_xxx\_cnxxx program and produces one and only one ELAPSED-TIME value.

Of course, since the actual response time includes the two communication components, it can be significantly longer than the ELAPSED-TIME shown in the pc\_server log.

And, of course, an activity by a user (such as a search) can consist of multiple pressings of the Enter key (or other server-communicating buttons) -- and multiple ELAPSED-TIME's. But what we can say with certainty is that, for each such pressing of the Enter key / clicking of button, there is one ELAPSED-TIME value in the pc\_server log.

Note: Print daemon activity is an exception: though the print daemon is initiated from a particular PC and has log entries for pc\_com\_c01nn programs for that PC, such as pc\_com\_c0180 ("Retrieve Information on Print Template Package"), these activities are initiated by the system and do not involve any pressing of the Enter key (or other communication from the PC).

**Category:** System Management (500)

**Subject:** Performance

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