

* The old binder is included in the April system figure.

Productivity in this case is hard to measure because we have no figures on the amount of code deleted from the old system, and therefore no figures on the total amount of new code added. The following calculations are based on the net change only (the utilities have *not* been included; they are viewed as overhead):

time: 4/1 - 10/15 = 28 weeks
 people: 6 - 1 (support) = 5
 person weeks: 140
 source lines: 18241 - 5692 = 12549
 productivity: 89.64 loc/pw = 4660 loc/py

This figure includes all activity except support functions, which I have estimated to occupy about one sixth of our time. Note that the staff size includes one full time person from CSL (Ed Satterthwaite somewhat less than full time, with Jim Mitchell making up the difference).

To get some handle on the total amount of new code written, we can try to estimate the amount of code that was removed in one component (say, the system), and then apply this factor to the other projects. An examination on a module basis indicates that about 900 lines were removed from the runtime system.

Old code size	13089
Deletes (estimate)	- 895
Adds (computed)	<u>5417</u>
New code size	17611

This calculation indicates that we should add about 20% to the net change to get the total amount of code written:

source lines: 12549 * 120% = 15059
 productivity: 107.56 loc/pw = 5590 loc/py

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