

openSUSE Conference 2010

How automated testing can help distributions

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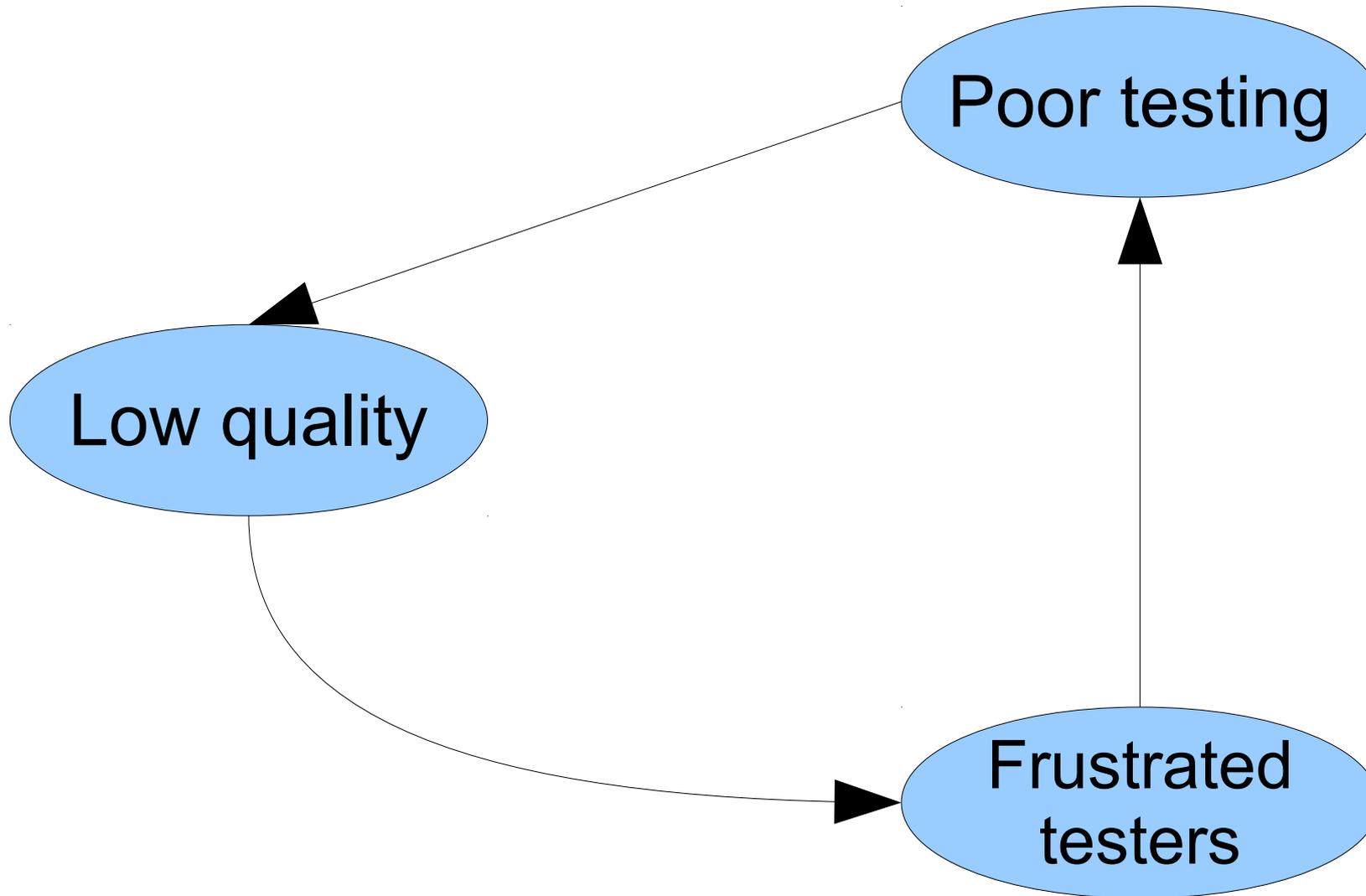
Motivation

If debugging is the process of removing bugs,
then programming must be the process
of putting them in.
[Edsger W. Dijkstra?]

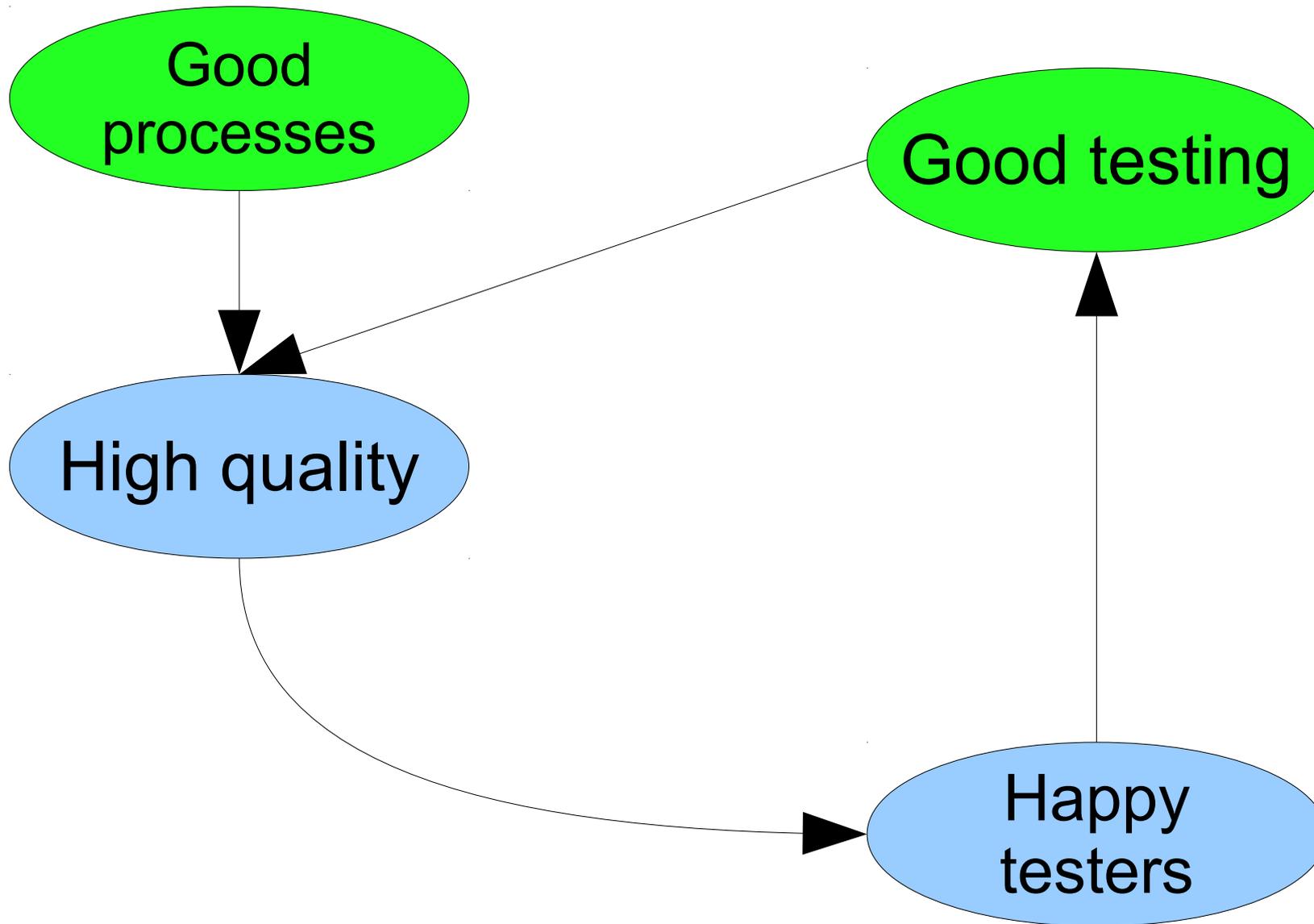
Problem

- Distribution is complex
 - Components interact
- Factory changes all the time

What we don't want



What we want



Motivation (cont.)

The three chief virtues of a programmer are:
Laziness, Impatience and Hubris.
[Larry Wall]

Possibilities

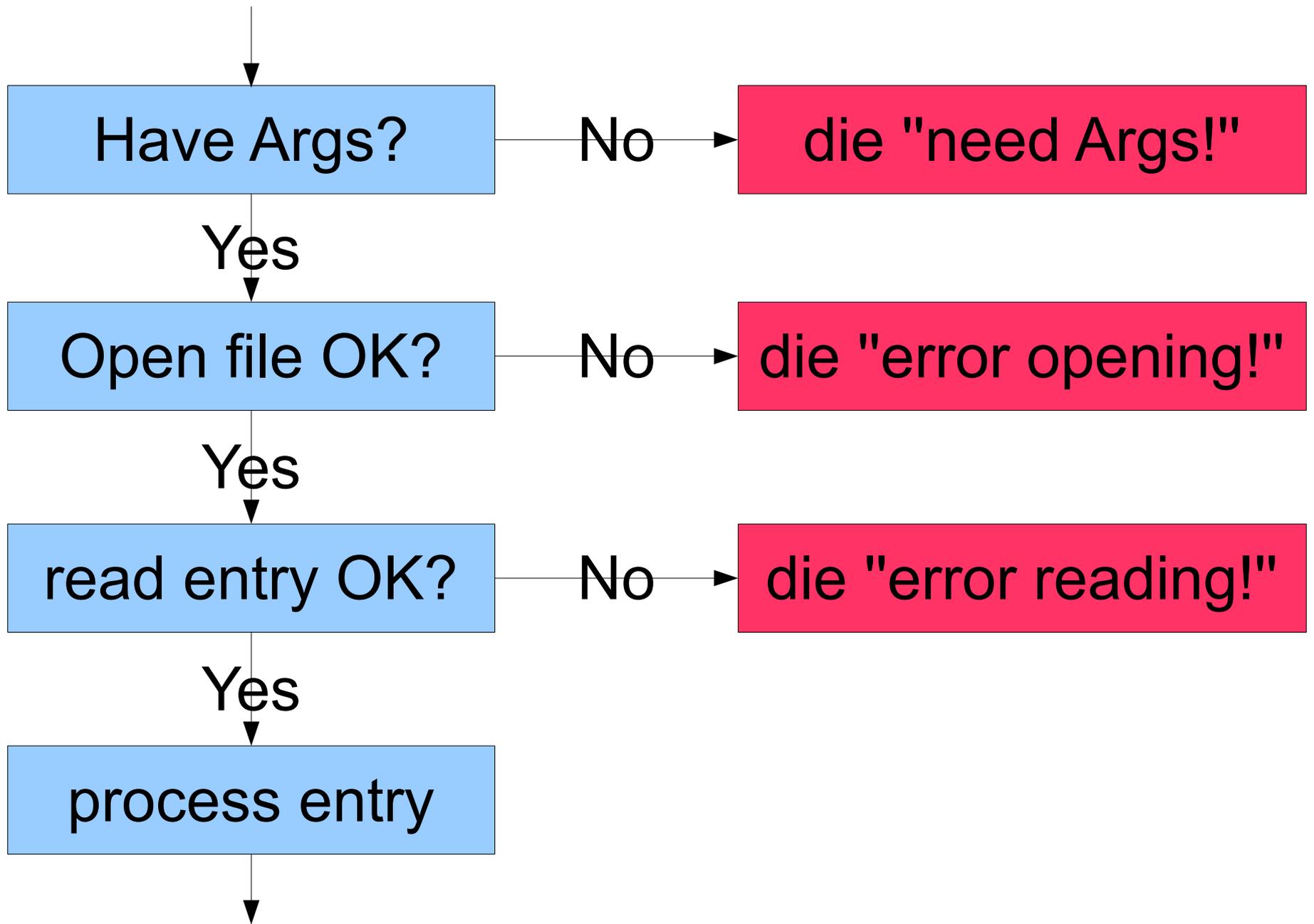
- install testing
- distribution upgrade testing
- application testing
- regression testing
- localisation testing
- benchmarking

Limitations

"Testing can only prove the presence of bugs,
not their absence."

[Edsger W. Dijkstra, 1969]

Typical flow chart



Other Free Testing Software

- KVM-autotest
- Sikuli
- Selenium
- http://en.wikipedia.org/wiki/List_of_GUI_testing_tools

Thanks

Questions?