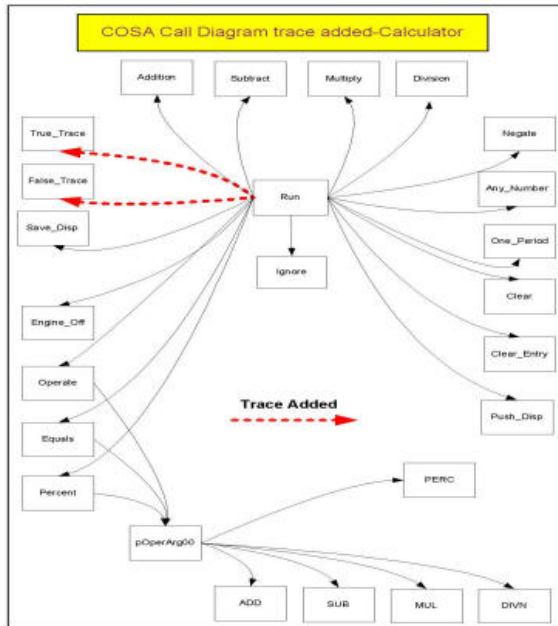


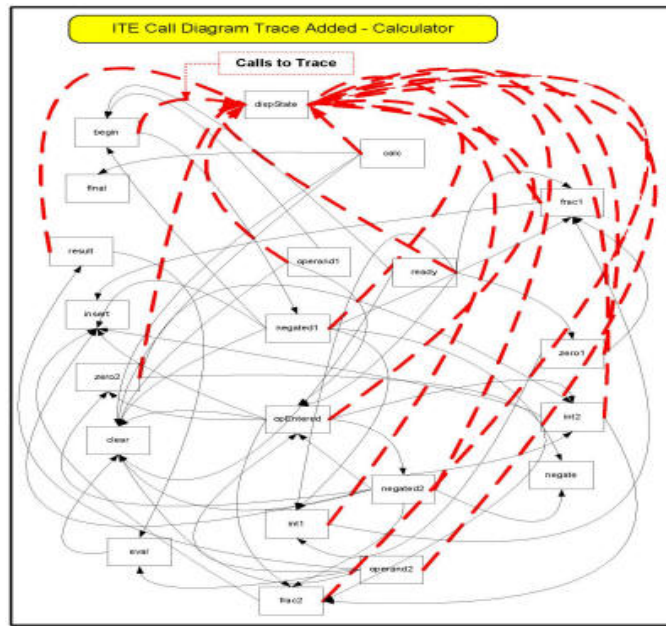
Temporal vs. Spatial Software Engineering (Continued)

Call Diagrams with Trace

Then look at what happens when trace¹ is added to both applications. The temporal engineering approach is much simpler and provides full coverage. The spatial approach does not show full coverage because the lines started covering too much of the diagram.



Temporal Engineering with Trace



Spatial Engineering with Trace

This was a simple thousand lines of code application. Imagine what applications and systems look like that consists of millions of lines of code and how difficult they are to test, debug, and control quality.

¹ Gordon E. Morrison, *Breaking the Time Barrier*, Appendix G & H, Outskirts Press, Copyright © 2009 Gordon Morrison