



PUSHING THE LIMITS OF LABVIEW



<http://imgs.xkcd.com/comics/bug.png>

Five Clever Debugging Techniques for Every LabVIEW Developer

Presented at NIWeek 2011

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Avoidance

Architecture

Testing

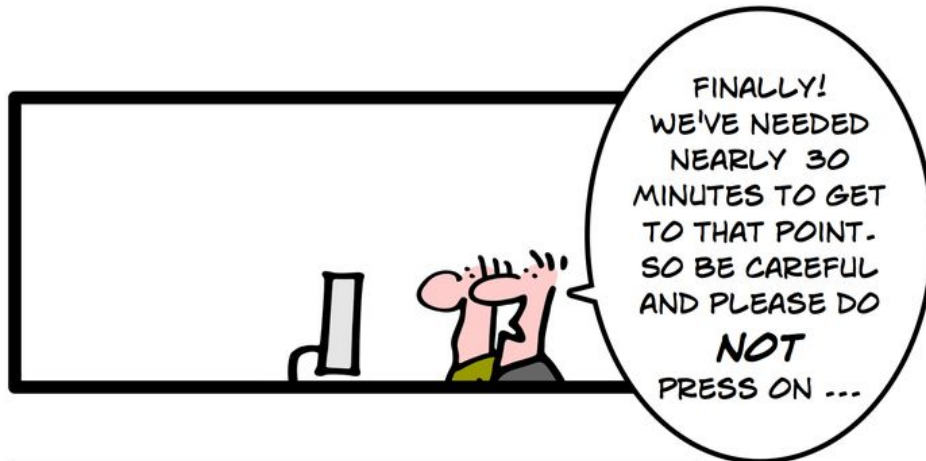
Issue Tracking



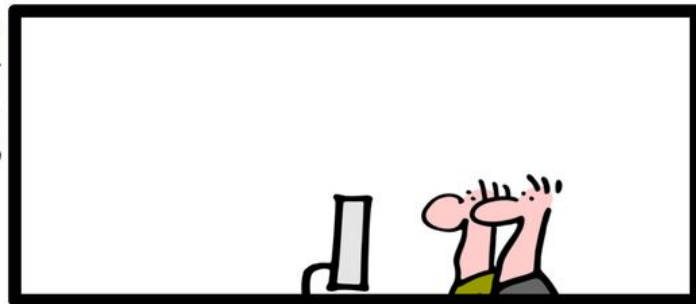
http://sv.wikipedia.org/wiki/Fil:Transamerica_Pyramid_from_street_level_4.JPG

Debugging is not a value added task

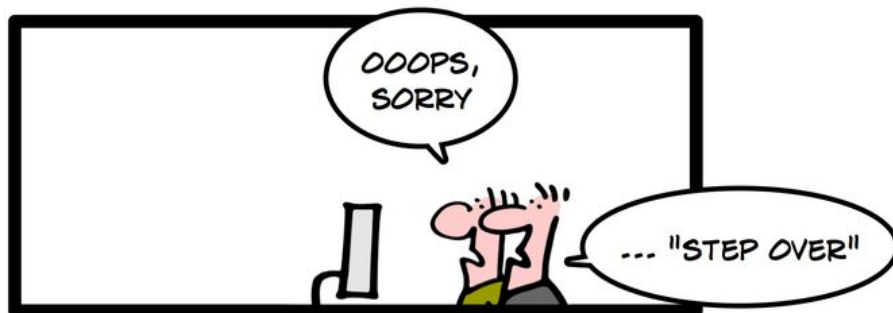
Hidden Costs of Poor Quality



Schedule Delays



Time & Materials



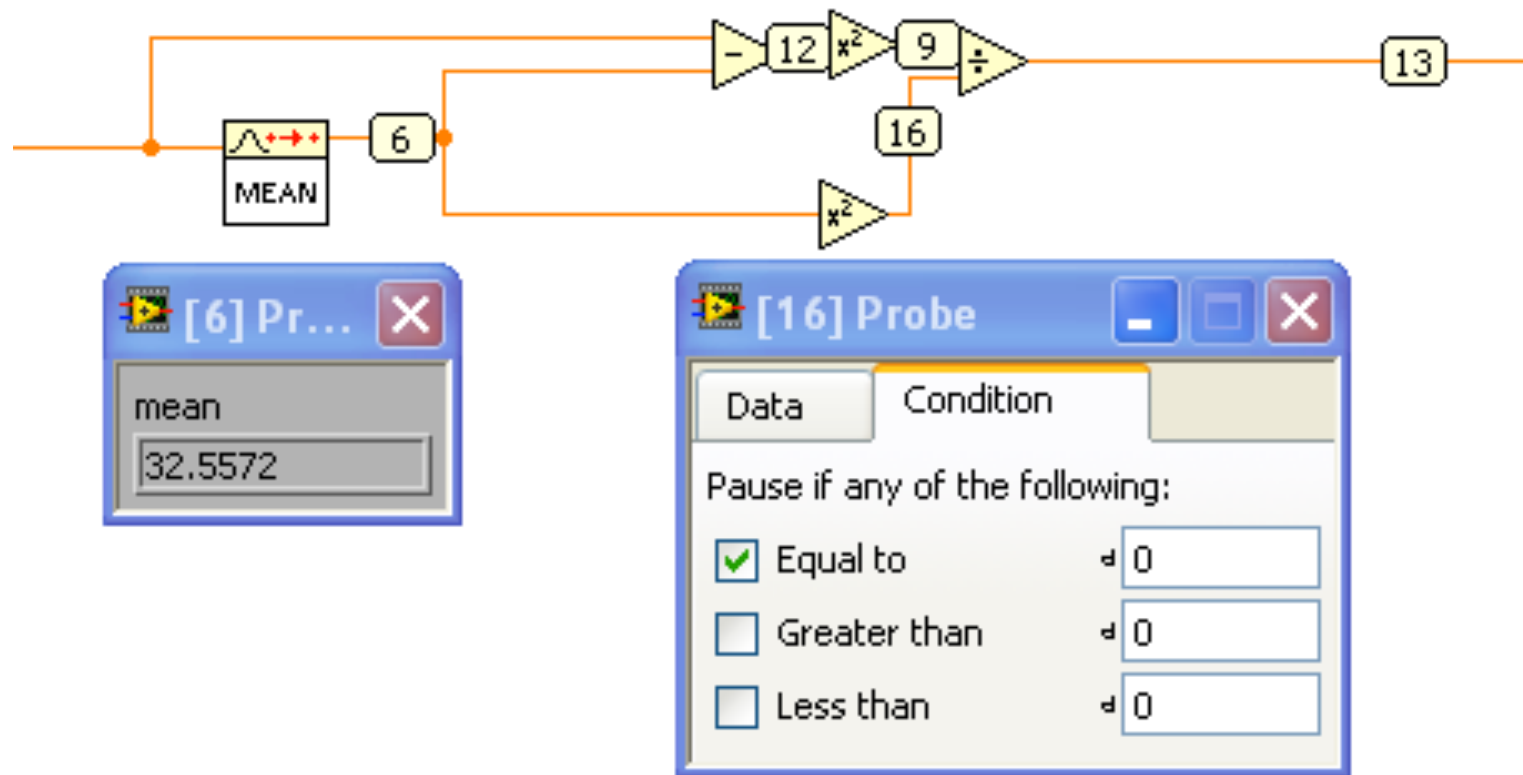
Customer Perception

JKI Stock Tracker App

Quick Overview

Subtle Bugs

#1 - Probes Revisited



#2 - Suspend When Called

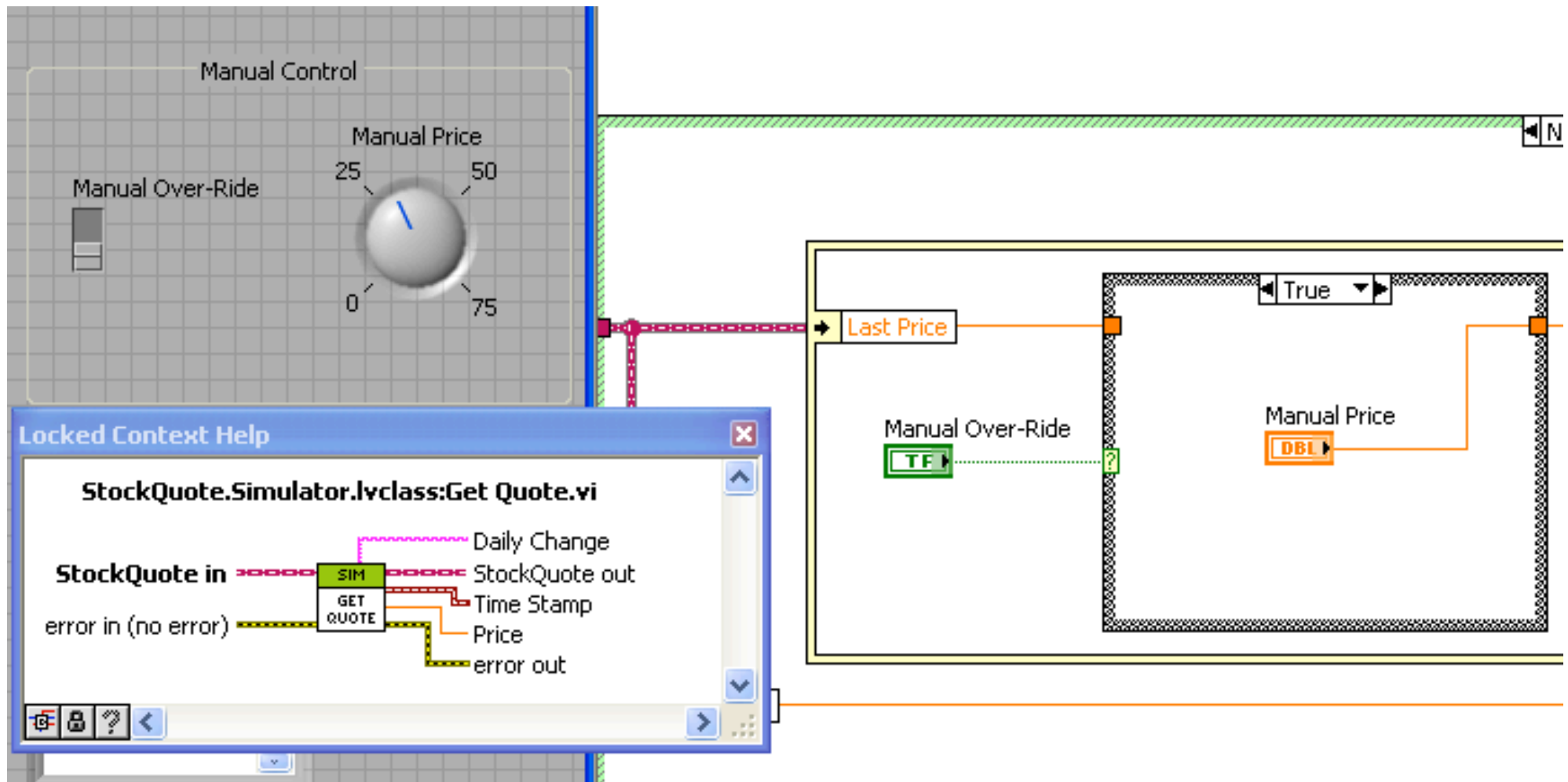
Overlooked

Easy to use



<http://www.viewzone.com/dead.scroll1.jpg>

#3 - Debug Panels

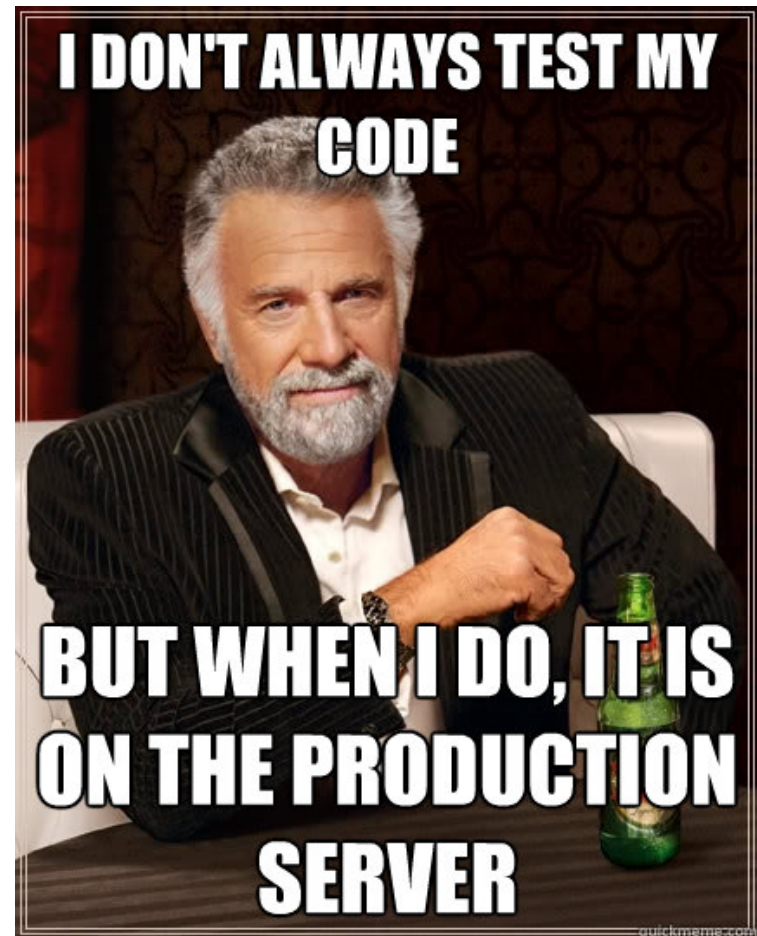


#4 - Unit Testing

Identify + fix bugs

Enable good design

Long term solution



<http://www.quickmeme.com/meme/2nau>

#5 - Tracing Execution

Last resort

Software Engineering with
LabVIEW

Thursday Rm 14 2:15-3:15
Elijah Kerry

History Probe Trace

14	Exit
13	Data: Cleanup
12	Macro: Exit
11	StockQuote: Stop
10	File: Save
9	File: Save
8	File: Save
7	File: Save
6	StockQuote: Start
5	UI: Front Panel State
4	UI: Initialize
3	Initialize Core Data
2	Data: Initialize
1	Macro: Initialize

Questions



http://www.freeimageslive.co.uk/free_stock_image/interrogatoryquestionmark.jpg