

CS152

Lab 2 Overview

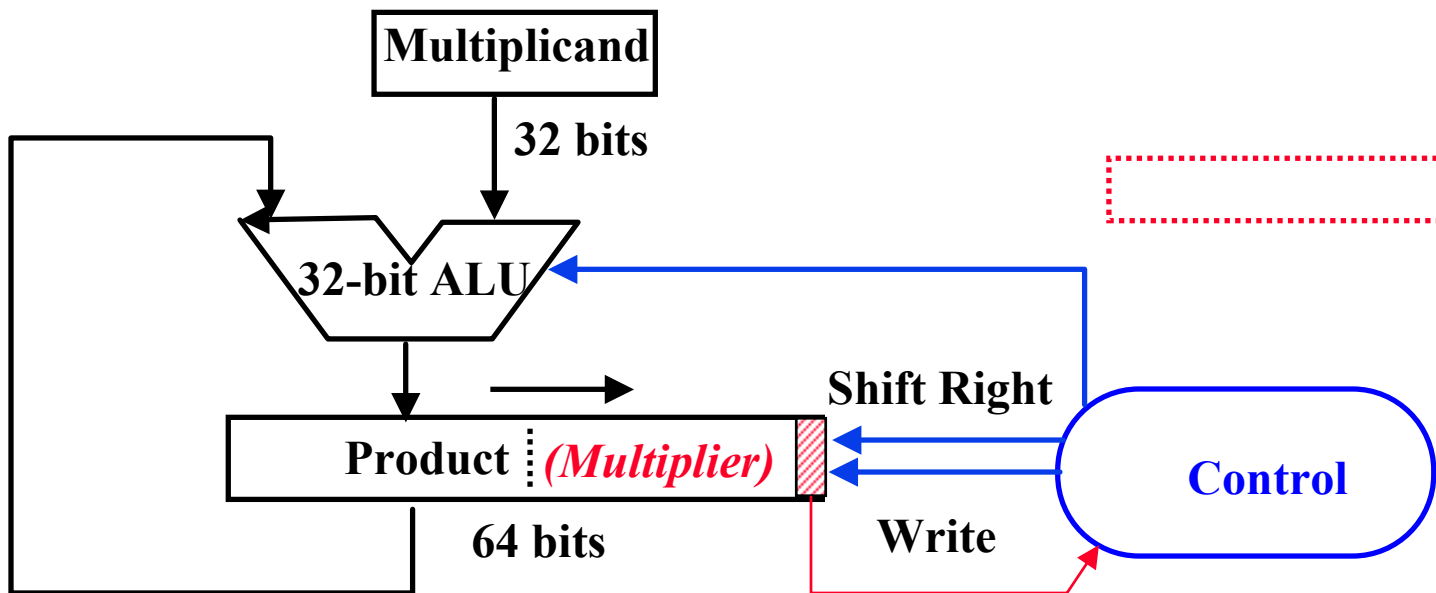
September 4, 2003

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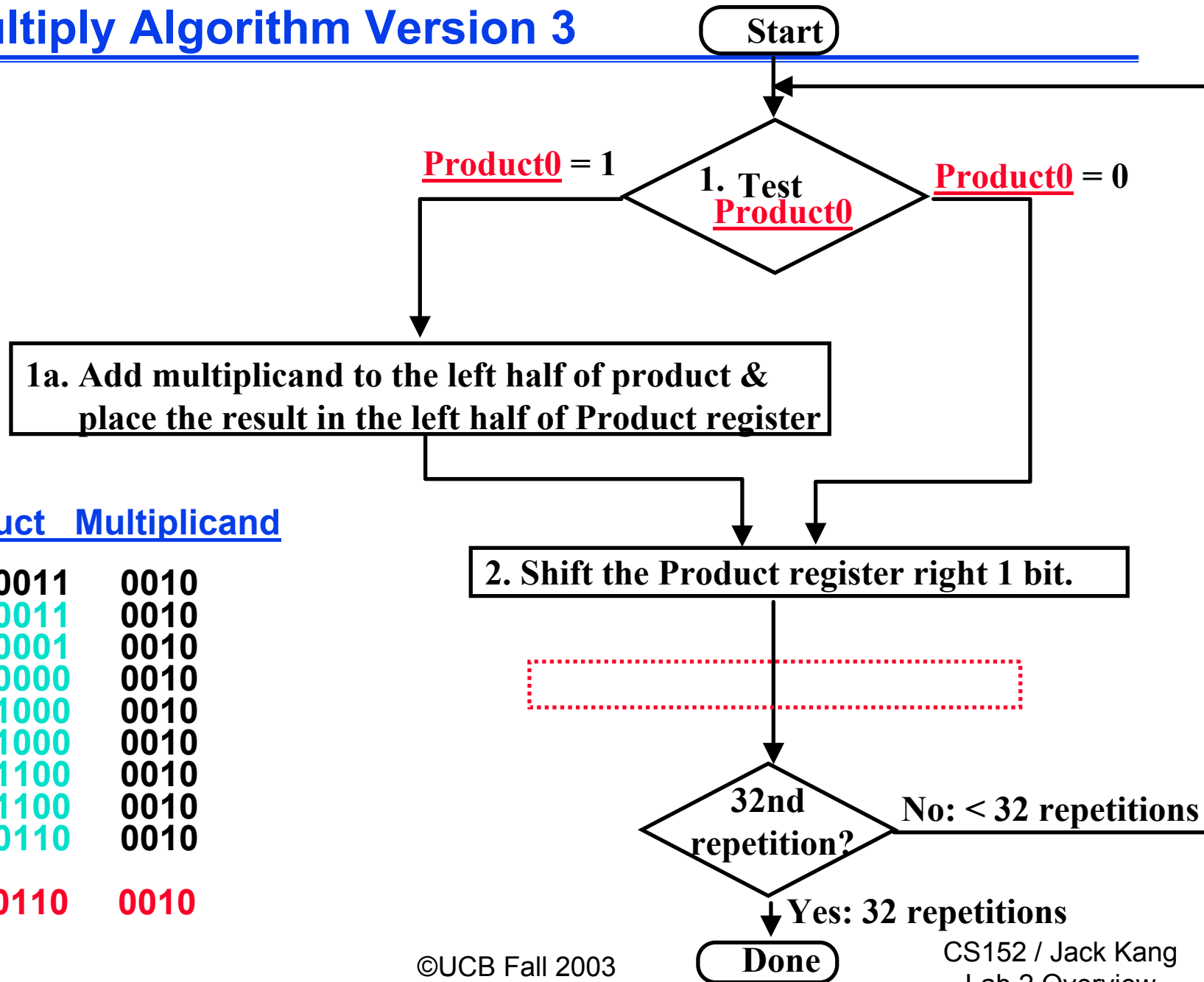
these slides: <http://inst.eecs.berkeley.edu/~cs152/>

MULTIPLY HARDWARE Version 3

- 32-bit Multiplicand reg, 32-bit ALU, 64-bit Product reg, (0-bit Multiplier reg)



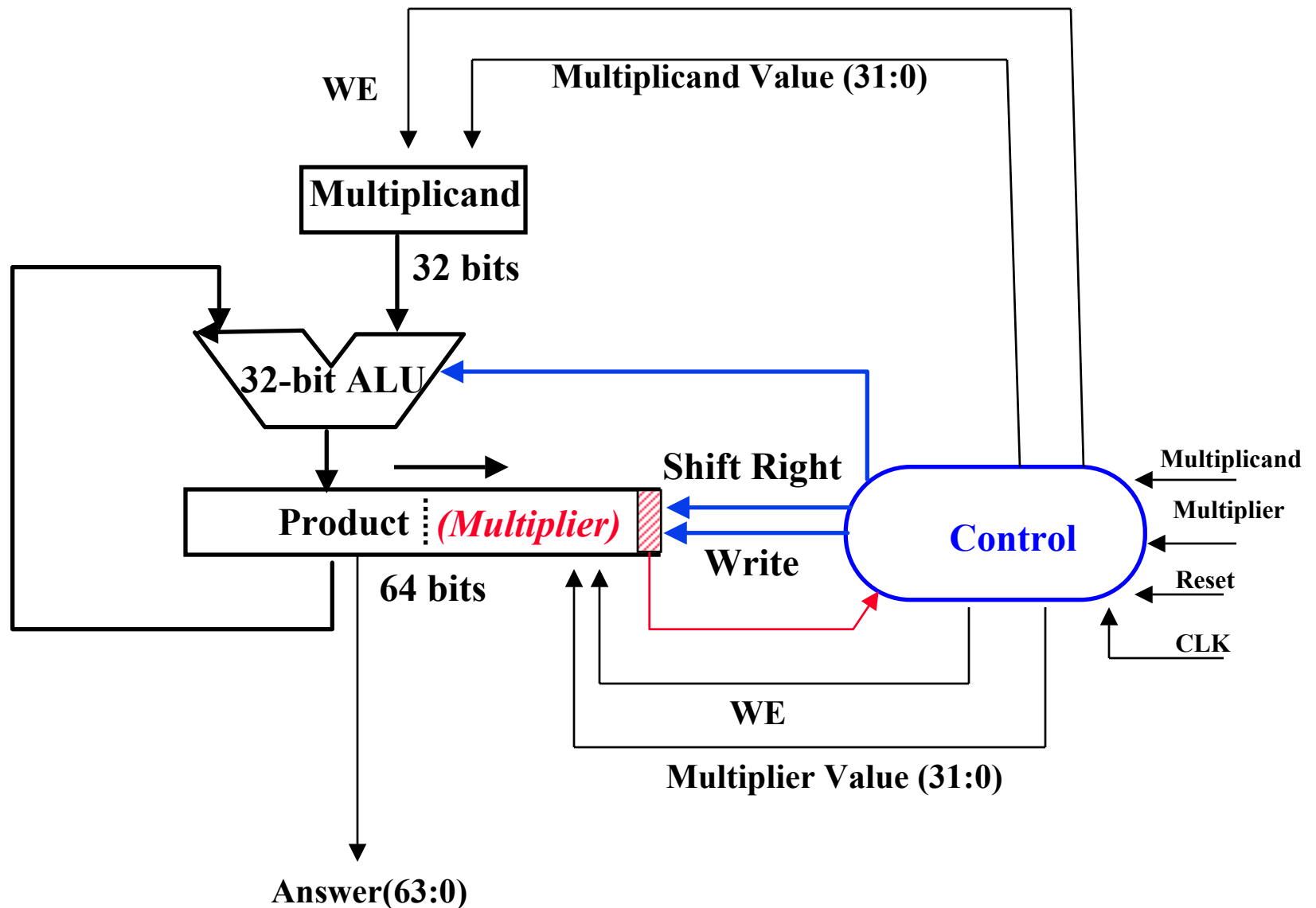
Multiply Algorithm Version 3



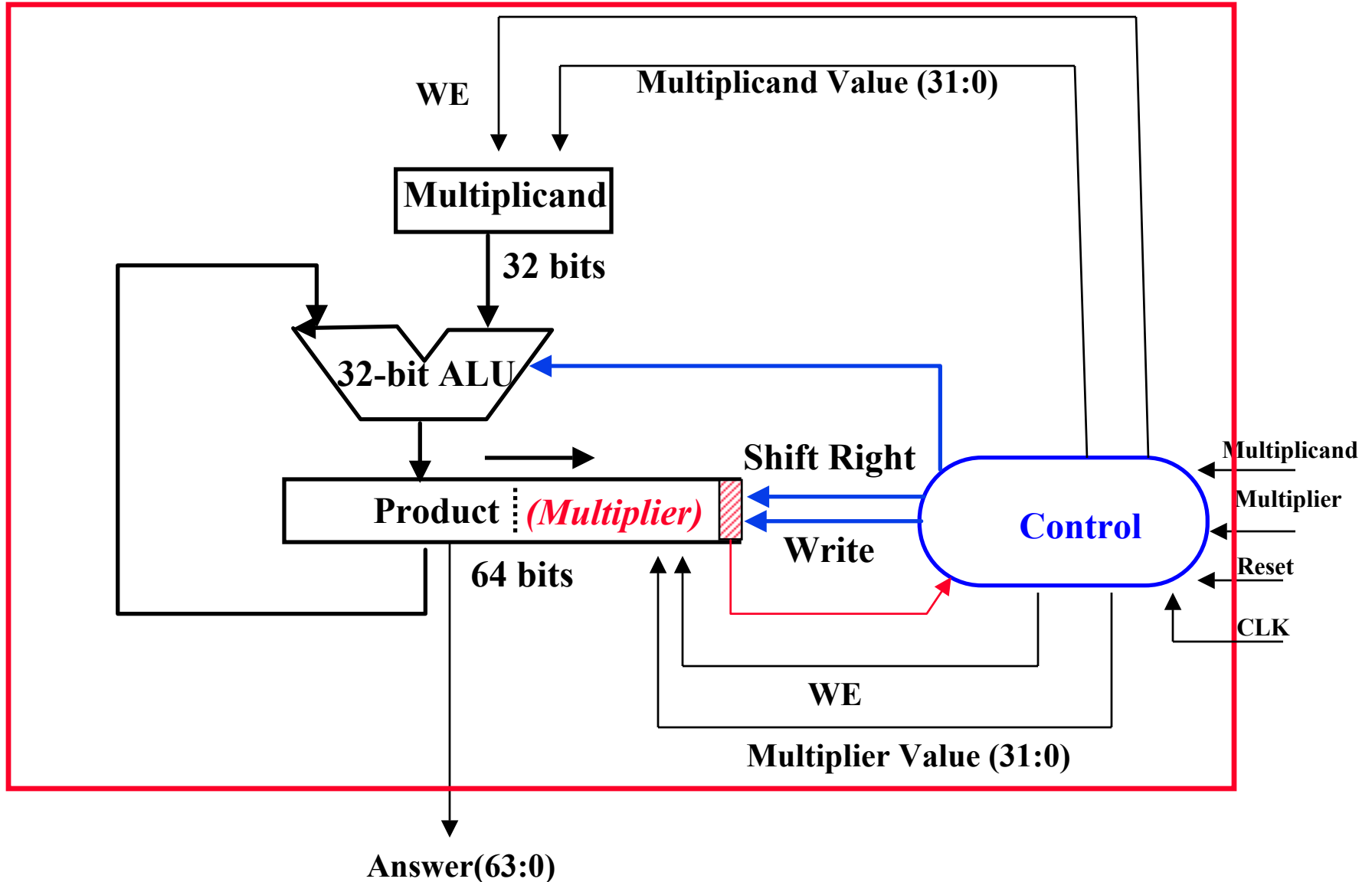
Product Multiplicand

	0000 0011	0010
1:	0010 0011	0010
2:	0001 0001	0010
1:	0011 0000	0010
2:	0001 1000	0010
1:	0001 1000	0010
2:	0000 1100	0010
1:	0000 1100	0010
2:	0000 0110	0010
	0000 0110	0010

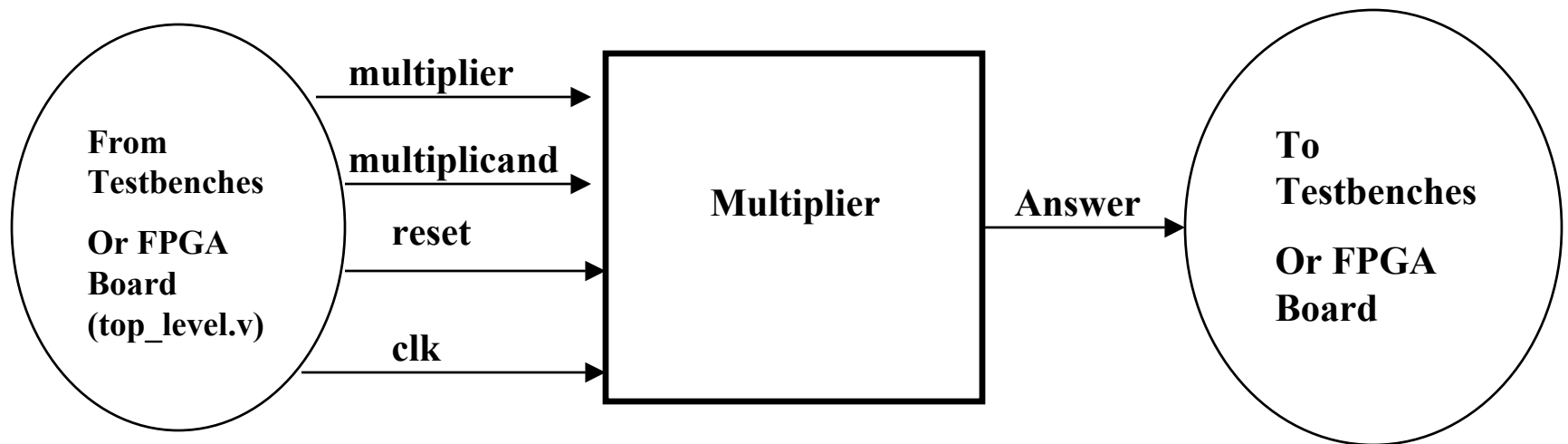
What else do we need to add for this lab?



Now what?



We have a multiplier black box!



Help!! The tools and I aren't getting along!!

- **Relax—This is normal. These tools are extremely difficult to use.**
- **Attend the Demo tomorrow from 3-4pm. We will be going over a tutorial of the entire tool flow.**
- **Get started early! This will give you time to ask questions**
- **Resources:**
 - **Your fellow students**
 - **Tutorials available online, or at CS150's website**
 - **support.xilinx.com**
 - **Xup.msu.edu**
 - **Your TAs**
 - **Play around! Learn new things about the tools and share what you learn.**