





Datapath for R-format Instructions
What do we need in order to execute R-format instructions (add, sub, slt, etc.)? E.g., add \$t0, \$t1, \$t2. We need to be able to read values for two registers, do arithmetic/logical operation, write a value for a register.
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Functional units we need:

"Register file", as discussed last time. See figure B.18.
ALU. What are inputs, outputs? Connect them up as in figure 5.7.

Trace through example — add \$t0, \$t1, \$t2.





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Slide 8

