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Controlling the ALU

- Sometimes the main control unit knows what operation the ALU should do.
- For which instructions can it look at just the OPCODE field and tell what the ALU should be doing?

• For which instructions does it need to look at the FUNC field?

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- The book uses the following strategy:
- The main control sends a signal to the ALU control unit, which means:
- This is the op to perform (ADD, SUB, OR...)
- otherwise, you decide the operation...
- Since we've already got both the FUNC and OP field coming into the main control unit, we could, in priniciple, decide everything there...

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