## XP and the Mark IV Coffee Maker

The meeting between the software people and the electrical and mechanical engineers on the project goes well. The hardware people have already been approached by the Fictitious Advanced Product Design Department (FAPDD) and have added several new features to this coffee maker.

A relief valve to interrupt coffee brewing, and a weight sensor in the coffee portion of the art microcontroller with Java 1.0 burnt into MOM, half a Meg of FLASH, half a Meg of FAM and 32 GPlO pins.

Fabulous, we won't have to program this thing in assembler [and all of the people watching over our shoulders will be able to actually run the code from their Internet browser.] The electrical engineers will use the bottom most 8 GPlO pins for input from the AD converter to get the pressure sensor reading. The next 2 pins are input for the brew button and the water sensor. The next 4 pins are output to the indicator light, warmer, boiler, and pressure relief valve in that order.

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Things are going well, then one of the engineers asks a question: "What about the cancel brew function."
"We haven't heard anything about that."
"Well, we talked to the FAPDD guys and they don't want it but we could just add it easy enques!"

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