Setup

- 140l fridge.
- 12 v PC case fan running on walwart on all the time
- Heat source: 2 x incandescent light globes 100w plus 40w.
- 5 gallon plastic brew drum
- 300mm thermowell in beer
- 1 probe in fridge, 1 in beer, 1 external to fridge
- Fridge door open close circuit
- Initial PID: Kp=10 Ki=0.25, Kd=-1.5 (default)
- Debian wheezy on old laptop and brewpi installed
- Arduino uno R3 with brewpi revs.

- Fantastic beer temp control through out whole of brew to date.
- Least variation was with lower than expected heating input and Kp
 =5
- Zeroing in on a period showed lag between fridge peak and beer peak to be ~12min.
- Fridges as designed are great insulators, you need less heat than you think.
- The system will control your beer but you can tweak it to reduce the heating/cooling cycle rate

