ecg Package Vignette

The following figure illustrates a sequence of low-pass filters, applied to a series of electrocardiographic recording.

```
> library("lattice")
> library("ecg")
> data("ecg")
> fecg <- wlpf(ecg, 1/1000, 30)
> fecg <- (fecg - mean(fecg))/sd(fecg)
> recg <- wlpf(ecg, 1/1000, 1)
> recg <- (recg - mean(recg))/sd(recg)
> eecg <- fecg - recg
> require(lattice)
> xplot <- rep((0:(length(ecg) - 1))/1000, 4)
> yplot <- c(ecg, fecg, recg, eecg)
> gplot <- c(rep("Raw", length(ecg)), rep("High Frequency Filter",
+     length(ecg)), rep("Low Frequency Filter", length(ecg)), rep("ECG",
+     length(ecg)))
> tp <- xyplot(yplot ~ xplot | gplot, type = "l", layout = c(1,
+     4), xlab = "Time", ylab = "V")
> print(tp)
```