Building a PDInfo Package for an Affymetrix Mapping Chip

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1 IMPORTANT!

Users are asked to download the packages for Affymetrix SNP chips from the BioConductor website!

The contents of this vignette explain the essence of the builder for SNP chips.

2 What you will need

Aside from the pdlnfoBuilder package and its dependencies, you will need the following files in order to follow along and build a "PDInfo" package for the Affymetrix Mapping 250K NSP chip.

- Mapping250K_Nsp.cdf: The binary CDF file from Affymetrix containing feature-level annotation.
- Mapping250K_Nsp_annot.csv: Delimited text file from Affymetrix containing featureSet-level annotation.
- Mapping250K_Nsp_probe_tab: Delimited text file from Affymetrix containing probe sequence information for all PM probes.

3 Building a PDInfo package

Assuming the source files described above are in your current working directory, the following commands will produce a PDInfo package.

We are able to complete the above step on a dual-CPU dual-core 3GHz Xeon box with 8GB RAM in about 20 minutes. The only step that requires a significant amount of RAM is generating the coded sequence matrix. I haven't yet looked carefully at it, but I think it should run on a 4GB system.