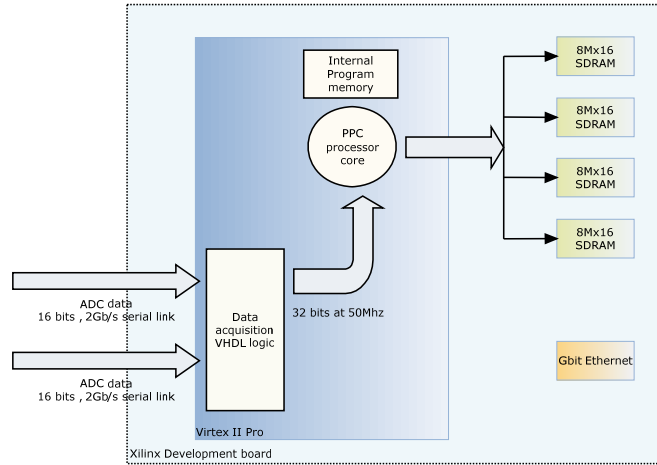# Collecting raw data from the digitiser

Record data from as many Rocket I/O inputs as possible. Send the data on to a disc system in a format to allow algorithm development. Data input rate is 10ns per 16 bit word.
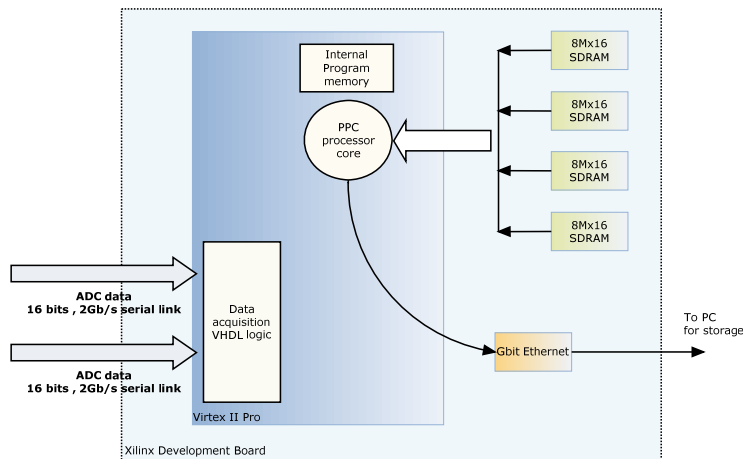
Data storage rate required is 20ns per 32 bit word. Memory rate is 10ns per 32 bit word. The data will be stored, depending on the number of channels, in two banks of 8M x 32 SDRAM. Packing the one data channel to one 32 bit word, or two data channels per 32 bit word.

Data capture phase.

# Channels	millisecs
1	327.68
2	163.84
4	83.88

The data will be collected and forwarded to a PC. The deadtime between traces is likely to be the time to transfer 64Mbytes => 2 seconds.

Data storage phase.