Task: Sum the 1000 integers of an array, by utilizing the available 8 processors.

Given: A file which contains 1000 integers, in the range 0 till 9.

Solution: Here I describe my method for the distribution of workload over 8 processors.

First, the user process is *forked*.

The parent process P *receives* 8 partial sums from each of the 8 processes, then calculates the total sum.

The child process c1 executes 3 *forks*, which generates 8 processes (as shown below). These processes are used to calculate the 8 partial sums *parallelly*, which are *unicast* to P, then the programs exit.