

1. Write a C++ program which takes a number as input and writes "Hello world < *input number* >" in standard output. Write a Makefile which compiles and links the program. Create a job script in
 - (a) bash
 - (b) csh
 - (c) Perl
 - (d) Python

which runs in parallel n jobs ($n = 10$) with different input and returns the output of each job in a separate file.

2. Let's assume we have in a directory, containing lots of other stuff, n root files which are named after some parameter m :
< *some string* >_m< *parameter value(int)* >.root.
Write a python script which scans the local directory for those root files and prints each file name and the value of the parameter on screen. Since `os.popen` is deprecated, use the `subprocess` module.
(Hint: create dummy root files for testing (containing e.g. one blanc) and use `re` (regular expressions))

Please make a tar-ball from your files and return it by email to Sami.Lehti(at)helsinki.fi.