

Read me about HW3

-Haojian Jin

Compile (on flare):

```
/development/SUNWspro/bin/cc manage.c -o manage
```

```
/development/SUNWspro/bin/cc report.c -o report
```

```
/development/SUNWspro/bin/cc compute.c -o compute
```

```
$ cd cs551
$ ls
Homework#1      hw1.grd      hw2.grd
file from server #1  hw1.grd~    hw3
helloworld.c     hw2         testfromhome
$ cd hw3
$ ls
bitmap.h  compute  manage  report  report.c~
bitmap.h~ compute.c manage.c report.c
$ /development/SUNWspro/bin/cc
usage: cc [ options ] files.  Use 'cc -flags' for details
$ /development/SUNWspro/bin/cc compute.c -o compute
"compute.c", line 182: warning: function expects to return value: compute_perfect
t_number
$ /development/SUNWspro/bin/cc manage.c -o manage
"manage.c", line 201: warning: statement not reached
$ /development/SUNWspro/bin/cc report.c -o report
"report.c", line 75: warning: implicit function declaration: strcmp
$
```

I also tested it in Solaris 10 with GCC.

Test:

1. Start the manage process first.

```
$ ./manage
Manager 744 has been started!
```

2. Check the report information then.

```
$ ./report
Computed perfect numbers:
Tested total numbers: 0 .
Processes currently computing (Process ids):
$
```

No information yet.

3. Start two processes with a start number argument:

```
./compute 8& ./compute 8&
```

Left window is the manage window, also have a message about received the information.

Right window is compute window, which displays the information about computing result.

<pre> \$ /development/SUNWwsp/ bin/cc compute "compute.c", line 181: warning: functi t_number \$./manage Manager 1682 has been started! Process 1743 registered! Process 1742 registered! Perfect numbers received! 28 Perfect numbers received! 496 Perfect numbers received! 8128 \$ </pre>	<pre> file from server #1 hw2 helloworld.c hw2.grd hw1.grd hw3 \$ cd hw3 \$./compute 8& ./compute 8& [1] 1742 [2] 1743 \$ Start number of this process is 8Client 1742 started! Start number of this process is 8Client 1743 started! Client 1743 : registered successfully, the index of corresponding process entry is 1! start computing128000 Client 1742 : registered successfully, the index of corresponding process entry is 2! start computing128000 Client 1742 : submitted perfect number 28 successfully! Client 1742 : submitted perfect number 496 successfully! Client 1742 : submitted perfect number 8128 successfully! </pre>
--	--

1. Sta

4. Report again.

```

$ cd hw3
$ ./report
Computed perfect numbers:
Tested total numbers: 0 .
Processes currently computing (Process ids):
$ ./report
Computed perfect numbers:28      496      8128
Tested total numbers: 99272 .
Processes currently computing (Process ids): 1743      1742
$

```

5. Terminal all the process with -report -k.

<pre> 28 Perfect numbers received! 496 Perfect numbers received! 8128 sig invoked \$ </pre>	<pre> Client 1742 : submitted perfect num Client 1742 : submitted perfect num End sig invoked Compute: 1742 has been cleaned up End sig invoked Compute: 1743 has been cleaned up \$ </pre>	<pre> Processes currently computing (Process ids): 17 \$./report -k Computed perfect numbers:28 496 8128 Tested total numbers: 117450 . Processes currently computing (Process ids): 17 Manager 1682 was killed by reporter. \$ </pre>
---	---	---