

## SERIAL VERSIONS

Concordance benchmark

| Program  | Processor  | OS      | Printing<br>enabled | N | file size    | diskdrive   | text file  | secs         |              |
|--|--|---------|---------------------|---|--------------|-------------|------------|--------------|--------------|
|  |  |         |                     |   |              |             |            | real<br>time | user<br>time |
| <i>HASKELL</i>   | note this is the original Haskell version not a later improved one |         |                     |   |              |             |            |              |              |
| haskellconcordnace                                     | Intel dual core 2.6GHz   | Windows | yes                 | 4 | 4792092      | local disk  | WEB.txt    | >2hours      | program te   |
| haskellconcordnace                                     | Intel dual core 2.6GHz   | Windows | yes                 | 4 | 3580         | local disk  | TMM1.txt   | 0.82         | 0.03         |
| haskellconcordnace                                     | Intel dual core 2.6GHz   | Windows | yes                 | 4 | 3580         | flash usb   | TMM1.txt   | 0.85         | 0.03         |
| <i>C version</i>                                       |  |         |                     |   |              |             |            |              |              |
| concordance.c  | Intel dual core 2.6GHz   | Windows | no                  | 4 | 3580         | flash usb   | TMM1.txt   | 0.06         | 0.03         |
| concordance.c  | Intel dual core 2.6GHz   | Windows | yes                 | 4 | 3580         | flash usb   | TMM1.txt   | 0.24         | 0.46         |
| concordance.c  | Intel dual core 2.6GHz   | Windows | yes                 | 4 | 4792091      | flash usb   | WEB.txt    | 17.58        | 3.27         |
| concordance.c  | Intel dual core 2.6GHz   | Windows | no                  | 4 | 4792091      | flash usb   | WEB.txt    | 1.06         | 0.97         |
| concordance.c  | Intel dual core 2.6GHz   | Windows | no                  | 4 | 3580         | local disk  | TMM1.txt   | 0.03         | 0.03         |
| concordance.c  | Intel dual core 2.6GHz   | Windows | yes                 | 4 | 3580         | local disk  | TMM1.txt   | 0.03         | 0.03         |
| concordance.c  | Intel dual core 2.6GHz   | Windows | yes                 | 4 | 4792091      | local disk  | WEB.txt    | 3.67         | 3.67         |
| concordance.c  | Intel dual core 2.6GHz   | Windows | no                  | 4 | 4792091      | local disk  | WEB.txt    | 0.96         | 0.95         |
| concordance.c  | Intel dual core 2.6GHz   | Linux   | yes                 | 4 | 4792091      | network dis | WEB.txt    | 2.68         | 1.68         |
| concordance.c O3                                       | Intel dual core 2.6GHz   | Linux   | yes                 | 4 | 4792091      | network dis | WEB.txt    | 2.25         | 1.45         |
| concordance.c  | Intel dual core 2.6GHz   | Linux   | no                  | 4 | 4792091      | network dis | WEB.txt    | 1.04         | 0.91         |
| concordance.c O3                                       | Intel dual core 2.6GHz   | Linux   | no                  | 4 | 4792091      | network dis | WEB.txt    | 0.9          | 0.78         |
| <b>PARALLEL VERSIONS</b>                               |  |         |                     |   |              |             |            |              |              |
| concordance2.c   | Intel dual core 2.6GHz   | Windows | yes                 | 4 | 4792091      | local disk  | WEB.txt    | 5.63         | 4.64         |
| concordance2.c   | Intel dual core 2.6GHz   | Windows | no                  | 4 | 4792091      | local disk  | WEB.txt    | 4            | 2.43         |
| concordance2.c   | Intel dual core 2.6GHz   | Linux   | yes                 | 4 | 4792091      | network dis | WEB.txt    | 2.26         | 2.21         |
| concordance2.c   | Intel dual core 2.6GHz   | Linux   | no                  | 4 | 4792091      | network dis | WEB.txt    | 0.81         | 1.07         |
| concordance2.c O3                                      | Intel dual core 2.6GHz   | Linux   | yes                 | 4 | 4792091      | network dis | WEB.txt    | 1.88         | 1.76         |
| concordance2.c O3                                      | Intel dual core 2.6GHz   | Linux   | no                  | 4 | 4792091      | network dis | WEB.txt    | 0.66         | 0.89         |
| <b>SHELL SCRIPTS PRODUCING A SINGLE FILE AS OUTPUT</b> |  |         |                     |   | compiled -O3 |             | Avg 4 runs |              |              |
| conc.sh  | Intel dual core 2.6GHz   | Linux   | yes                 | 4 | 4792091      | network dis | WEB.txt    | 2.12         | 1.68         |
| concp.sh   | Intel dual core 2.6GHz   | Linux   | yes                 | 4 | 4792091      | network dis | WEB.txt    | 2.45         | 1.78         |

concl.sh

Intel dual core 2.6GHz Linux

yes

4 4792091 network disWEB.txt

1.93

1.9

2.32  
2.32  
2.53  
2.64  
2.45

secs  
time

sys            Mb/sec

terminated

0.02            0  
0.02            0

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0.02            0.06  
0.03            0.01  
0.2             0.27  
0.08            4.54

0.02            0.13  
0.03            0.12  
0.03            1.3  
0.05            4.99

0.13            1.79  
0.13            2.13  
0.13            4.61  
0.19            5.33

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1.4             0.85  
1.45            1.2

0.19            2.12  
0.15            5.95  
0.18            2.55  
0.15            7.26

0.14  
0.17

0.25