|  |  |  |  |
| --- | --- | --- | --- |
|  | Bash | Python | C |
| 1 | .8 – 3.44 V | -.2 - 3.48 V | -.2 – 3.48 V |
| 2 | 244.7 ms | 102 ms | 101.8 ms |
| 3 | Not close at all, it is over double the period. | Very close, only off by 2% | Very close, only off by 1.8% |
| 4 | This is longer due to bash overhead | Python has much less overhead, but still some | C has a very small level of overhead from file writing times |
| 5 | 11% of the CPU | 2.1% of the CPU | 1.6% of the CPU |
| 6 | Value: Period: CPU:  .05 144.7 ms 28.7 %  .01 56.3 ms 68.1 %  .005 43.2 ms 79.8 %  .001 33.8 ms 96.1 % | Value: Period: CPU:  .05 49.2 ms 3.8 %  .01 9.6 ms 15.6 %  .005 7.1 ms 17.8 %  .001 4.32 ms 44.7 % | Value: Period: CPU:  .05 48.9 ms 2.4 %  .01 9.4 ms 3.9 %  .005 6.8 ms 4.4 %  .001 2.7 ms 18.6 % |
| 7 | Very sporadic at low periods | Somewhat sporadic at all periods | Very Stable period with little to no fluctuations |
| 8 | Very sensitive to programs being opened, as well as doing things in those programs | Little effect at high periods, but huge effect at lower periods | Opening programs makes it fluctuate, but less than the other 2. |
| 9 | It does remove delay time between shell events, speeding up the period |  |  |
| 10 | Using Sh instead of bash does slightly reduce the period time |  |  |
| 11 | 14.3 ms |  |  |