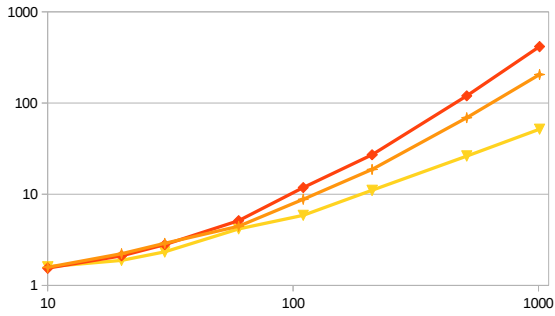


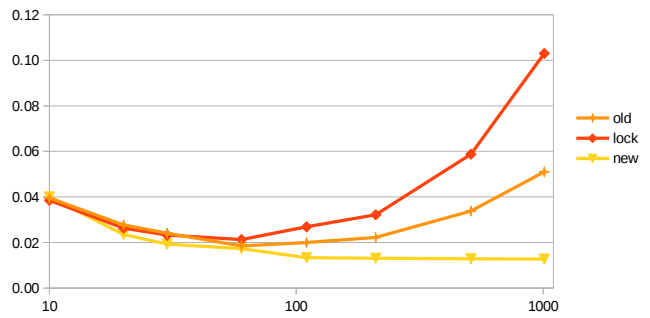
Apollon (4 cores)

| code | #devs | #iter | real  | user   | sys   | %link_upd | %scan | %lock | #devs, real | cpu time | CPU usage | time lu | time scan | time/udev |
|------|-------|-------|-------|--------|-------|-----------|-------|-------|-------------|----------|-----------|---------|-----------|-----------|
| old  | 0     | 2     | 2.37  | 0.64   | 0.94  | 1.9       | 1.8   | 0     | 10          | 1.58     | 0.67      | 0.0     | 0.0       | 0.04      |
| old  | 10    | 2     | 2.62  | 0.94   | 1.28  | 6         | 5.8   | 0     | 20          | 2.22     | 0.85      | 0.1     | 0.1       | 0.03      |
| old  | 20    | 2     | 1.84  | 1.3    | 1.59  | 9.7       | 9.5   | 0     | 30          | 2.89     | 1.57      | 0.3     | 0.3       | 0.02      |
| old  | 50    | 2     | 2.16  | 2.13   | 2.32  | 19.4      | 19.2  | 0     | 60          | 4.45     | 2.06      | 0.9     | 0.9       | 0.02      |
| old  | 100   | 2     | 4.6   | 4.3    | 4.5   | 25.9      | 25.6  | 0     | 110         | 8.8      | 1.91      | 2.3     | 2.3       | 0.02      |
| old  | 200   | 2     | 8.3   | 9.5    | 9.2   | 38.3      | 38    | 0     | 210         | 18.7     | 2.25      | 7.2     | 7.1       | 0.02      |
| old  | 500   | 2     | 21.9  | 35.8   | 33.3  | 55.2      | 54.9  | 0     | 510         | 69.1     | 3.16      | 38.1    | 37.9      | 0.03      |
| old  | 1000  | 2     | 57.3  | 107    | 99    | 63        | 62.8  | 0     | 1010        | 206      | 3.60      | 129.8   | 129.4     | 0.05      |
| lock | 0     | 2     | 1.33  | 0.67   | 0.87  | 2.5       | 2.1   | 0     | 10          | 1.54     | 1.16      | 0.0     | 0.0       | 0.04      |
| lock | 10    | 2     | 1.53  | 0.83   | 1.28  | 7.8       | 6.5   | 1     | 20          | 2.11     | 1.38      | 0.2     | 0.1       | 0.03      |
| lock | 20    | 2     | 1.88  | 1.21   | 1.58  | 13        | 10.3  | 2.2   | 30          | 2.79     | 1.48      | 0.4     | 0.3       | 0.02      |
| lock | 50    | 2     | 3.16  | 2.48   | 2.63  | 26.4      | 22.1  | 3.6   | 60          | 5.11     | 1.62      | 1.3     | 1.1       | 0.02      |
| lock | 100   | 2     | 7.35  | 5.65   | 6.17  | 39.6      | 33    | 5.8   | 110         | 11.82    | 1.61      | 4.7     | 3.9       | 0.03      |
| lock | 200   | 2     | 17.64 | 13.345 | 13.67 | 54.6      | 45    | 8.8   | 210         | 27.015   | 1.53      | 14.8    | 12.2      | 0.03      |
| lock | 500   | 2     | 88.64 | 59.34  | 60.43 | 68.5      | 55.8  | 11.9  | 510         | 119.77   | 1.35      | 82.0    | 66.8      | 0.06      |
| lock | 1000  | 2     | 323   | 205    | 211   | 75.5      | 60    | 15    | 1010        | 416      | 1.29      | 314.1   | 249.6     | 0.10      |
| new  | 0     | 2     | 1.39  | 0.72   | 0.88  | 0.7       | 0     | 0     | 10          | 1.6      | 1.15      | 0.0     | 0.0       | 0.04      |
| new  | 10    | 2     | 1.41  | 0.84   | 1.04  | 1.6       | 0.9   | 0     | 20          | 1.88     | 1.33      | 0.0     | 0.0       | 0.02      |
| new  | 20    | 2     | 1.57  | 1.12   | 1.2   | 1.5       | 0.7   | 0     | 30          | 2.32     | 1.48      | 0.0     | 0.0       | 0.02      |
| new  | 50    | 2     | 2.37  | 1.88   | 2.28  | 2         | 0.9   | 0     | 60          | 4.16     | 1.76      | 0.1     | 0.0       | 0.02      |
| new  | 100   | 2     | 2.84  | 2.86   | 3     | 2.9       | 1.5   | 0.5   | 110         | 5.86     | 2.06      | 0.2     | 0.1       | 0.01      |
| new  | 200   | 2     | 4.4   | 5.5    | 5.5   | 3         | 0.9   | 0.9   | 210         | 11       | 2.50      | 0.3     | 0.1       | 0.01      |
| new  | 500   | 2     | 9.2   | 12.2   | 14    | 2.9       | 0.9   | 0.9   | 510         | 26.2     | 2.85      | 0.8     | 0.2       | 0.01      |
| new  | 1000  | 2     | 17.7  | 27.1   | 24.5  | 2.4       | 1     | 1     | 1010        | 51.6     | 2.92      | 1.2     | 0.5       | 0.01      |

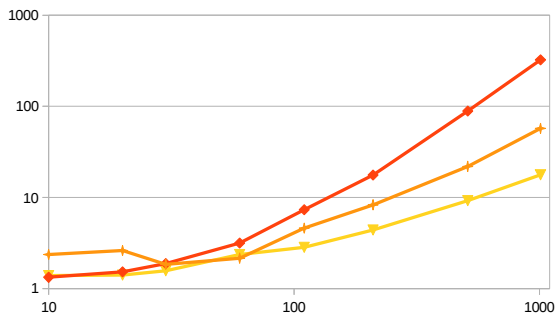
CPU time



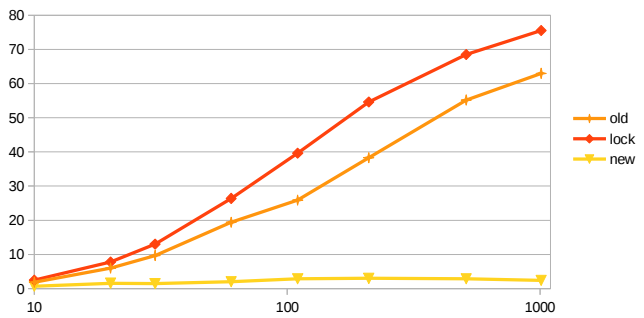
CPU time per udev call



real time



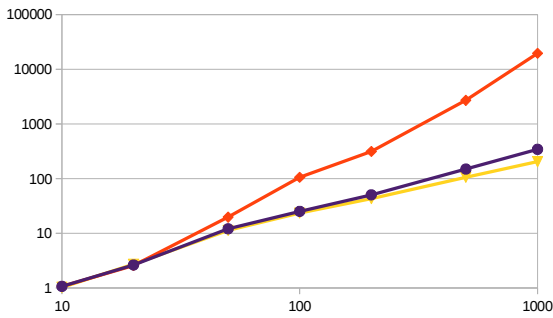
% CPU spent in link\_update()



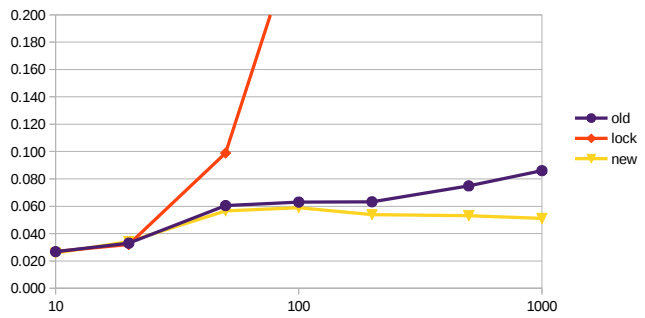
Bremer (72 cores)

| code | #devs | #iter | real | user  | sys   | %link_updat | #devs, real | cpu time | cpu time 2 | real time | CPU usage | time lu  | time/udev |
|------|-------|-------|------|-------|-------|-------------|-------------|----------|------------|-----------|-----------|----------|-----------|
| old  | 10    | 10    | 1.41 | 1.84  | 3.52  | 0.1         | 10          | 5.36     | 1.072      | 0.282     | 3.80      | 0.0      | 0.027     |
| old  | 20    | 10    | 2    | 3.8   | 9.4   | 0.1         | 20          | 13.2     | 2.64       | 0.4       | 6.60      | 0.0      | 0.033     |
| old  | 50    | 10    | 4.86 | 16.9  | 43.6  | 7           | 50          | 60.5     | 12.1       | 0.972     | 12.45     | 4.2      | 0.061     |
| old  | 100   | 2     | 1.87 | 5.92  | 19.3  | 8.3         | 100         | 25.22    | 25.22      | 1.87      | 13.49     | 2.1      | 0.063     |
| old  | 200   | 2     | 3.14 | 12.9  | 37.7  | 13.4        | 200         | 50.6     | 50.6       | 3.14      | 16.11     | 6.8      | 0.063     |
| old  | 500   | 2     | 6.32 | 41.7  | 108   | 26.3        | 500         | 149.7    | 149.7      | 6.32      | 23.69     | 39.4     | 0.075     |
| old  | 1000  | 2     | 12.1 | 104   | 240   | 29.7        | 1000        | 344      | 344        | 12.1      | 28.43     | 102.2    | 0.086     |
| lock | 10    | 10    | 1.59 | 1.59  | 3.79  | 2.73        | 10          | 5.38     | 1.076      | 0.318     | 3.38      | 0.1      | 0.027     |
| lock | 20    | 10    | 2.44 | 3.69  | 9.14  | 4.24        | 20          | 12.83    | 2.566      | 0.488     | 5.26      | 0.5      | 0.032     |
| lock | 50    | 10    | 9.87 | 17.4  | 81.5  | 33.45       | 50          | 98.9     | 19.78      | 1.974     | 10.02     | 33.1     | 0.099     |
| lock | 100   | 2     | 7.4  | 6.38  | 99.1  | 72.9        | 100         | 105.48   | 105.48     | 7.4       | 14.25     | 76.9     | 0.264     |
| lock | 200   | 2     | 15.6 | 12.8  | 302   | 91.5        | 200         | 314.8    | 314.8      | 15.6      | 20.18     | 288.0    | 0.394     |
| lock | 500   | 2     | 75.3 | 47.5  | 2658  | 96.7        | 500         | 2705.5   | 2705.5     | 75.3      | 35.93     | 2,616.2  | 1.353     |
| lock | 1000  | 2     | 395  | 164   | 19462 | 97.3        | 1000        | 19626    | 19626      | 395       | 49.69     | 19,096.1 | 4.907     |
| new  | 10    | 10    | 1.3  | 1.51  | 3.64  | 2.55        | 10          | 5.15     | 1.03       | 0.26      | 3.96      | 0.1      | 0.026     |
| new  | 20    | 10    | 2.16 | 3.53  | 10.1  | 4.59        | 20          | 13.63    | 2.726      | 0.432     | 6.31      | 0.6      | 0.034     |
| new  | 50    | 10    | 4.85 | 12.54 | 44    | 11.5        | 50          | 56.54    | 11.308     | 0.97      | 11.66     | 6.5      | 0.057     |
| new  | 100   | 2     | 2.08 | 3.67  | 19.9  | 27.6        | 100         | 23.57    | 23.57      | 2.08      | 11.33     | 6.5      | 0.059     |
| new  | 200   | 2     | 3.2  | 7.03  | 36.1  | 31.1        | 200         | 43.13    | 43.13      | 3.2       | 13.48     | 13.4     | 0.054     |
| new  | 500   | 2     | 6.11 | 17.6  | 88.4  | 32.2        | 500         | 106      | 106        | 6.11      | 17.35     | 34.1     | 0.053     |
| new  | 1000  | 2     | 11   | 35.8  | 168.4 | 31.1        | 1000        | 204.2    | 204.2      | 11        | 18.56     | 63.5     | 0.051     |

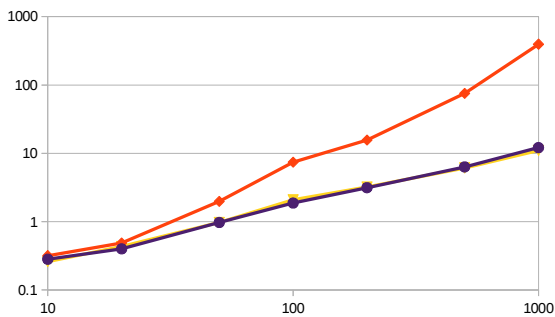
CPU time



CPU time / udev call



Real time



%CPU spent in link\_update()

