| Benchmark | Pycket | Racket | Larceny | V8 | Spidermonkey | Python | Pypy |
|---|---|---|---|---|---|---|---|
| | mean | mean | mean | mean | mean | mean | mean |
| Bubble$_{chaperone}$ | 776 ±7 ms | 6667 ±5 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Bubble$_{direct}$ | 653 ±3 ms | 1382 ±2 ms | 1595 ±1 ms | 336 ±0 ms | 221 ±0 ms | 20626 ±36 ms | 597 ±2 ms |
| Bubble$_{proxy}$ | ± ms | ± ms | ± ms | 111379 ±4449 ms | 113832 ±2284 ms | 100209 ±816 ms | 1248 ±11 ms |
| Bubble$_{unsafe}$ | 547 ±2 ms | 955 ±2 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Bubble$_{unsafe2}$ | 540 ±2 ms | 726 ±1 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Church$_{chaperone}$ | 6960 ±49 ms | 38042 ±1200 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Church$_{chaperone-a}$ | 1239 ±6 ms | 4542 ±213 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Church$_{contract}$ | 1448 ±12 ms | 10330 ±284 ms | ± ms | 291928 ±1548 ms | 403966 ±5428 ms | ± ms | ± ms |
| Church$_{direct}$ | 752 ±3 ms | 1241 ±7 ms | 796 ±12 ms | 2067 ±7 ms | 3470 ±10 ms | ± ms | ± ms |
| Church$_{proxy}$ | ± ms | ± ms | ± ms | 54073 ±118 ms | 153989 ±680 ms | ± ms | ± ms |
| Church$_{proxy-a}$ | ± ms | ± ms | ± ms | 51991 ±125 ms | 150996 ±950 ms | ± ms | ± ms |
| Church$_{wrap}$ | 2392 ±8 ms | 4184 ±8 ms | 4129 ±19 ms | 8588 ±39 ms | 17171 ±203 ms | 298532 ±6236 ms | 68958 ±172 ms |
| Proc$_{chaperone}$ | 88 ±1 ms | 1051 ±10 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Proc$_{chaperone+return}$ | 90 ±1 ms | 1576 ±8 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Proc$_{direct}$ | 21 ±1 ms | 34 ±0 ms | ± ms | 39 ±0 ms | 27 ±0 ms | 1464 ±25 ms | 67 ±1 ms |
| Proc$_{impersonate}$ | 88 ±1 ms | 1020 ±7 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Proc$_{impersonate+return}$ | 90 ±1 ms | 1532 ±10 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Proc$_{indirect}$ | 20 ±1 ms | 124 ±2 ms | ± ms | 38 ±0 ms | 28 ±1 ms | 1453 ±25 ms | 80 ±1 ms |
| Proc$_{proxy}$ | ± ms | ± ms | ± ms | 1555 ±9 ms | 2604 ±8 ms | ± ms | ± ms |
| Proc$_{wrapped}$ | 22 ±1 ms | 180 ±1 ms | ± ms | 38 ±0 ms | 27 ±0 ms | 2682 ±15 ms | 72 ±2 ms |
| Proc$_{wrapped+check}$ | 23 ±1 ms | 366 ±3 ms | ± ms | 118 ±1 ms | 140 ±0 ms | 4319 ±92 ms | 83 ±2 ms |
| Proc$_{wrapped+return}$ | 23 ±1 ms | 405 ±7 ms | ± ms | 368 ±1 ms | 668 ±5 ms | 5457 ±57 ms | 276 ±1 ms |
| Struct$_{chaperone}$ | 135 ±1 ms | 5546 ±60 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Struct$_{direct}$ | 134 ±1 ms | 527 ±0 ms | 1069 ±1 ms | 377 ±0 ms | 271 ±18 ms | 4650 ±34 ms | 126 ±1 ms |
| Struct$_{impersonate}$ | 136 ±1 ms | 5530 ±103 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Struct$_{proxy}$ | ± ms | ± ms | ± ms | 26531 ±618 ms | 26760 ±103 ms | 103454 ±860 ms | 2077 ±28 ms |
| Struct$_{unsafe}$ | 133 ±1 ms | 337 ±0 ms | ± ms | ± ms | ± ms | ± ms | ± ms |
| Struct$_{unsafe2}$ | 133 ±1 ms | 337 ±0 ms | ± ms | ± ms | ± ms | ± ms | ± ms |