

| Computation resource | Region length | E-step | | | M-step | | | | Total |
|----------------------|---------------|-------------------|-------------------|-------------|------------------|----------------|--------------|-------------|----------|
| | | Optimize δ | Optimize γ | Update ELBO | Optimize μ_0 | Optimize M_0 | Optimize M | Update ELBO | time (s) |
| single processor | 100 | 617.7 (63%) | 4.232 | 10.42 | 0.264 | 0.159 | 332.8 (34%) | 10.29 | 976.0 |
| | 200 | 1124 (65%) | 8.936 | 18.64 | 0.418 | 0.256 | 570.0 (33%) | 18.37 | 1741 |
| | 300 | 1728 (65%) | 13.27 | 27.81 | 0.445 | 0.400 | 851.5 (32%) | 27.65 | 2649 |
| | 400 | 2433 (66%) | 17.99 | 38.55 | 0.737 | 0.635 | 1176 (32%) | 38.17 | 3705 |
| 60 processors | 100 | 29.93 (41%) | 0.2470 | 11.67 | 0.3070 | 0.1890 | 19.56 (26%) | 11.98 | 73.89 |
| | 200 | 44.69 (40%) | 0.4170 | 22.14 | 0.5230 | 0.3040 | 24.04 (21%) | 22.24 | 114.3 |
| | 300 | 63.47 (40%) | 0.7160 | 33.31 | 0.5620 | 0.5040 | 29.41 (18%) | 33.24 | 161.2 |
| | 400 | 94.66 (43%) | 0.7270 | 42.78 | 0.8200 | 0.7060 | 40.04 (18%) | 44.28 | 219.7 |