|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Lines of Code** | **Input Size** | **Description** | **Elements per follower iterator chunk** |
| 2mm | 221 | 128 x 128 | 2 matrix multiplications (D=A\*B; E=C\*D) | 4 |
| fw | 153 | 64 x 64 | Floyd-Warshall all-pairs shortest path algorithm | 2 |
| trmm | 133 | 128 x 128 | Triangular matrix multiply | 8 |
| correlation | 235 | 512 x 512 | Correlation computation | 16 |
| covariance | 201 | 512 x 512 | Covariance computation | 16 |
| cholesky | 182 | 256 x 256 | Cholesky decomposition | 16 |
| lu | 143 | 128 x 128 | LU decomposition | 8 |
| mvt | 185 | 4000 | Matrix vector product and transpose | 250 |
| syrk | 154 | 128 x 128 | Symmetric rank-k operations | 8 |
| fdtd-2d | 201 | 1000 x 1000 | 2D Finite Different Time Domain Kernel | 16000 |
| fdtd-apml | 333 | 64 x 64 x 64 | FDTD using Anisotropic Perfectly Matched Layer | 4 |
| jacobi1D | 138 | 10000 | 1D Jacobi stencil computation | 157 |
| jacobi2D | 152 | 400 x 400 | 2D Jacobi stencil computation | 2600 |
| stencil9† | 142 | 400 x 400 | 9-point stencil computation | 2613 |
| pascal‡ | 126 | 100000, 100003 | Computation of pascal triangle rows | 1563 |
| folding‡ | 139 | 50400 | Strided sum of consecutive array elements | 394 |