Determináns profilozó mérések

Változtatható paraméterek:

* size
* DATATYPE (float vagy double)
* 1D/2D adattárolás

M5 (5x5-ös matrix, determináns (matlab): -506992):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Futásidő (µs) | Végeredény | Relatív hiba (µ%) | Compute TP (%) | Occupancy (%) |
| float, 1D | 5.18 | -506992 | 0 | 0.24 | 15.63 |
| float, 2D | 5.31 | -506992 | 0 | 0.24 | 11.31 |
| double, 1D | 7.94 | -506992 | 0 | 0.94 | 11.14 |
| double, 2D | 7.87 | -506992 | 0 | 1.02 | 8.46 |

M10 (10x10-es matrix, determináns (matrix reshish) : -7065572342.2490961272 ) :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Futásidő (µs) | Végeredény | Relatív hiba (µ%) | Compute TP (%) | Occupancy (%) |
| float, 1D | 6.69 | -7065577472.00 | 72.6 | 0.49 | 20.5 |
| float, 2D | 8.32 | -7065577472.00 | 72.6 | 0.18 | 5.99 |
| double, 1D | 16.61 | -7065572342.25 | 0 | 1.86 | 13.52 |
| double, 2D | 17.66 | -7065572342.25 | 0 | 1.75 | 12.65 |

M18 (18x18-as mátrix, determináns (matlab): -6.271444603206407e+19):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Futásidő (µs) | Végeredény | Relatív hiba (µ%) | Compute TP (%) | Occupancy (%) |
| float, 1D | 11.20 | -6.2728858001e+19 | 22980.3 | 0.74 | 23.36 |
| float, 2D | 11.49 | -6.2728858001e+19 | 22980.3 | 0.76 | 24.52 |
| double, 1D | 35.46 | -6.2714446032e+19 | 0.0000067 | 2.93 | 22.37 |
| double, 2D | 35.90 | -6.2714446032e+19 | 0.0000067 | 2.83 | 21.89 |