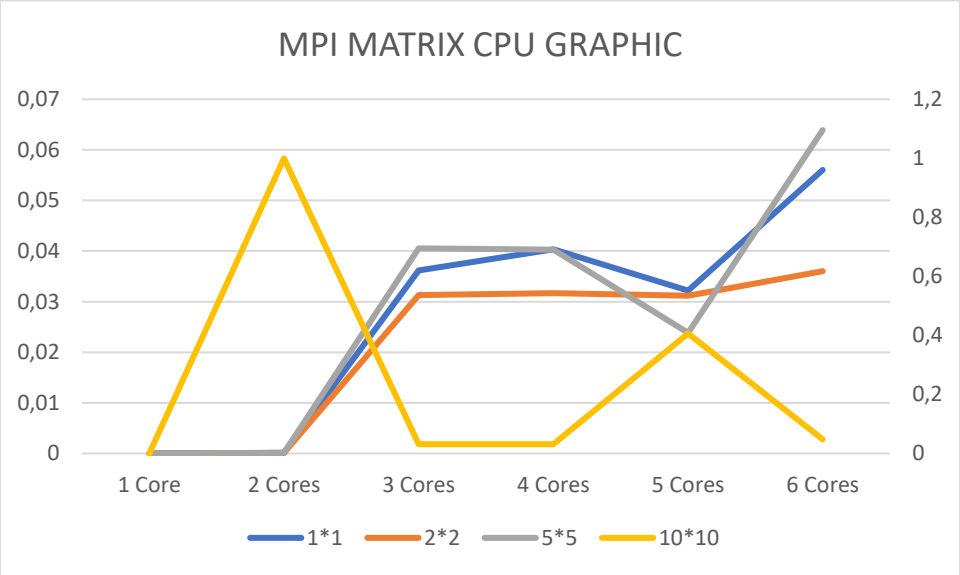
MATRIX VECTOR PRODUCT ANALYSIS REPORT WITH MPI PRAOGRAMMING

The tests were carried out on a VMWare virtual machine and 16GB of RAM and 6 Core were used. However, it could not be tested at high values because it gave a CPU error when the matrix size was increased. It can be tested with a 10*10 matrix at most.

The Virtual Machine has been observed to be inconsistent at low data and different CPU options. It is essential to use higher data for a more consistent graph. In the table and graph below, the performances of matrices from 1 to 10 and processors from 1 to 6 are observed.

It was also observed that odd and even cores differed in behavior.

	1 Core	**2 Cores**	**3 Cores**	**4 Cores**	**5 Cores**	**6 Cores**
1*1	0,000005	0,00012	0,036185	0,04033	0,032158	0,056034
2*2	0,000005	0,00015	0,03133	0,031682	0,031166	0,036021
5*5	0,000006	0,000144	0,040518	0,040273	0,023866	0,063908
10*10	0,000006	error	0,032004	0,031662	0,40652	0,047779



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