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## How to calculate the minimum trace line number for Arm parallel trace

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The official recommendation from arm is that the optimal bandwidth = 2bit\*core frequency.  
For example if the core is running at 500MHz with a trace clock = 80 Mhz = 160 Mhz DDR, the number of trace line needed:

optimal bandwidth / 1 line bandwidth =  $2*500\text{Mhz}/160 = 6.25$  trace line

So with a single core running at 500 Mhz, and 80Mhz trace clock TPIU.PortSize 8 should be fine.  
With 2 cores you need 2\*bandwidth → 12,5 trace line, so you need TPIU.PortSize 16