



CPU Benchmarks

Over 1,000,000 CPUs benchmarked

Intel Xeon Gold 6246R @ 3.40GHz vs Intel Core i7-4702HQ @ 2.20GHz

The values for the CPUs below are determined from thousands of PerformanceTest benchmark results and are updated daily.

- The first section will show basic information for each CPU selected.
- The additional graphs shows the CPU Mark and Single Thread values of each CPU selected.
- An accompany graph, if price data is available, will shows the value for money, in terms of the CPU Mark/Thread Rating per dollar.
- The last section will show approximate yearly running costs for the CPUs.

	Intel Xeon Gold 6246R @ 3.40GHz	Intel Core i7-4702HQ @ 2.20GHz	+ ADD
Price	\$1910 - BUY	Search Online	
Socket Type	FCLGA3647	FCBGA1364	
CPU Class	Server	Laptop	
Clockspeed	3.4 GHz	2.2 GHz	
Turbo Speed	Up to 4.1 GHz	Up to 3.2 GHz	
# of Physical Cores	16 (Threads: 32)	4 (Threads: 8)	
Cache	L1: 1,024KB, L2: 16.0MB, L3: 36MB	L1: 256KB, L2: 1.0MB, L3: 6MB	
TDP	205W	37W	
Yearly Running Cost	\$37.41	\$6.75	
Other		Intel HD Graphics 4600	
First Seen on Chart	Q4 2020	Q2 2013	
# of Samples	6	418	
CPU Value	16.0	0.0	
Single Thread Rating	2341	1627	
(%diff. to max in group)	(0.0%)	(-30.5%)	
CPU Mark	30468	5334	
(% diff. to max in group)	(0.0%)	(-82.5%)	

CPU Mark Rating

As of 5th of June 2024 - Higher results represent better performance

Intel Xeon Gold 6246R @ 3.40GHz 30,468

Intel Core i7-4702HQ @ 2.20GHz

<u>5,334</u>



CPU Benchmarks



CPU Value (CPU Mark / \$Price)

As of 5th of June 2024 - Higher results represent better value

Intel Xeon Gold 6246R @ 3.40GHz	<u>16.0</u>
Intel Core i7-4702HQ @ 2.20GHz	<u>NA</u>
PassMark Software © 2008-2024	

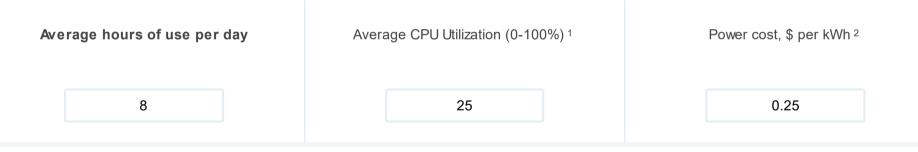
CPU Single Thread Rating

As of 5th of June 2024 - Higher results represent better performance

Intel Xeon Gold 6246R @ 3.40GHz		<u>2,341</u>
Intel Core i7-4702HQ @ 2.20GHz		<u>1,627</u>
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Estimated Energy Usage Cost

Estimated Energy Adjustable Values



¹ Average user usage is typically low and can vary from task to task. An estimate load 25% is nominal.

² Typical power costs vary around the world. Check your last power bill for details. Values of \$0.15 to \$0.45 per kWh are typical.

	Intel Xeon Gold 6246R @ 3.40GHz	Intel Core i7-4702HQ @ 2.20GHz
Max TDP	205W	37W
Power consumption per day (kWh)	0.4	0.1
Running cost per day	\$0.102	\$0.018
Power consumption per year (kWh)	149.6	27.0
Running cost per year	\$37.41	\$6.75

Shown CPU power usage is based on linear interpolation of Max TDP (i.e. max load). Actual CPU power profile may vary.

CPU Benchmarks



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