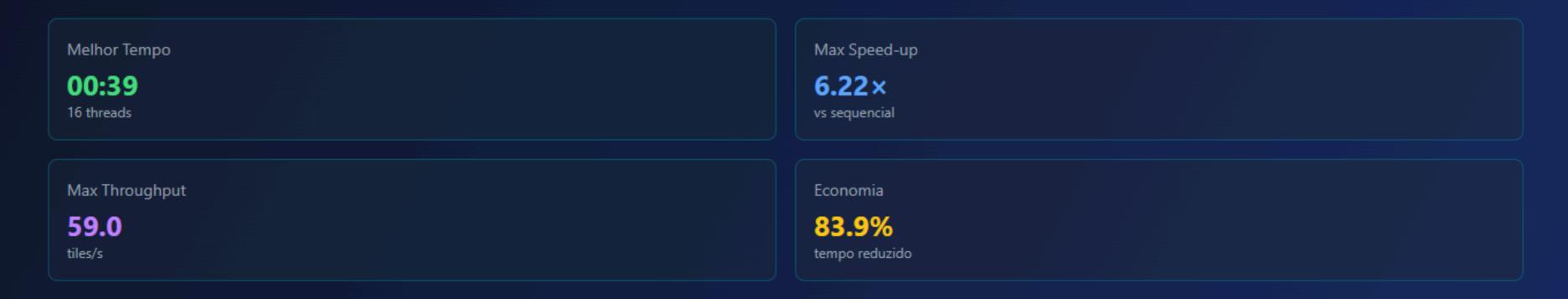
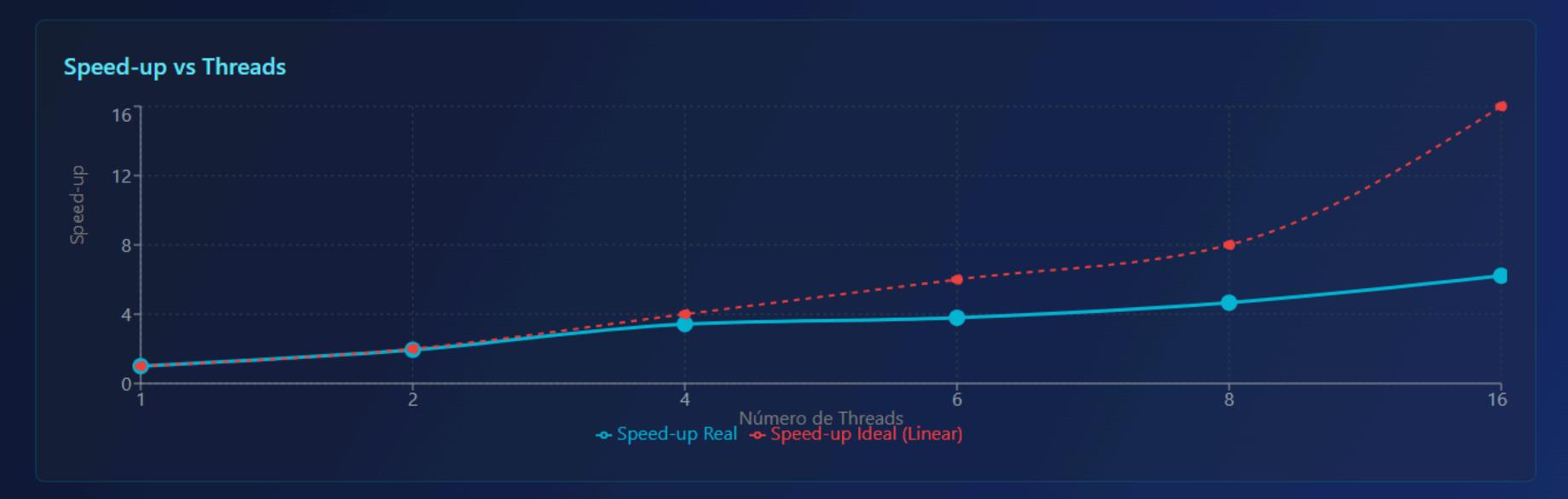
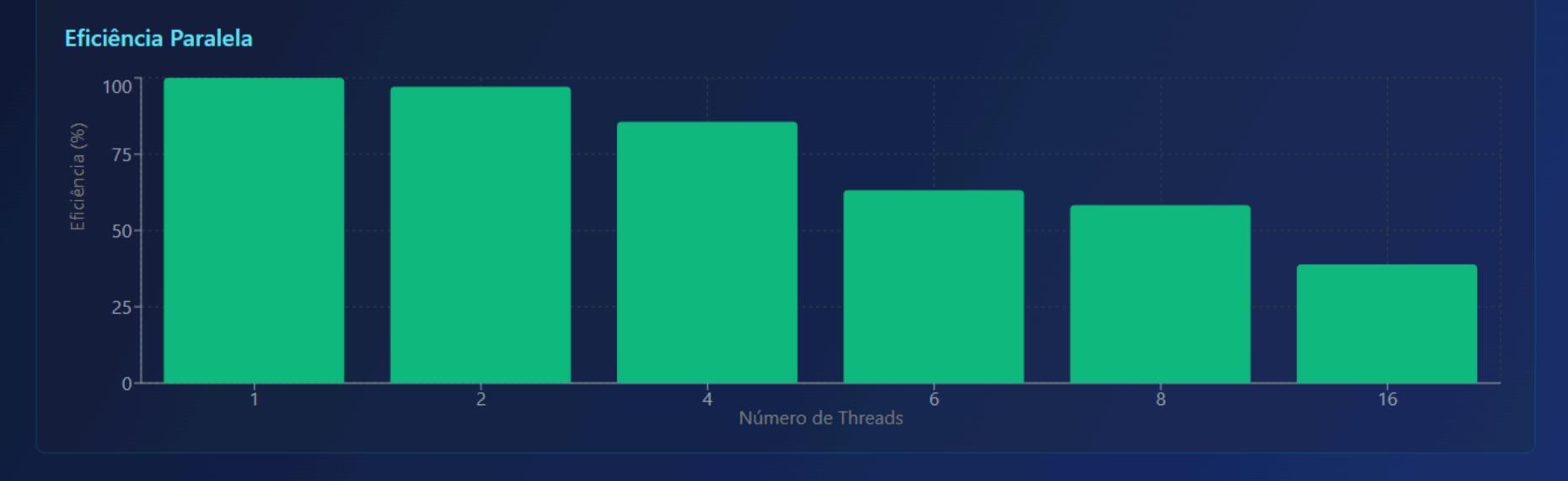
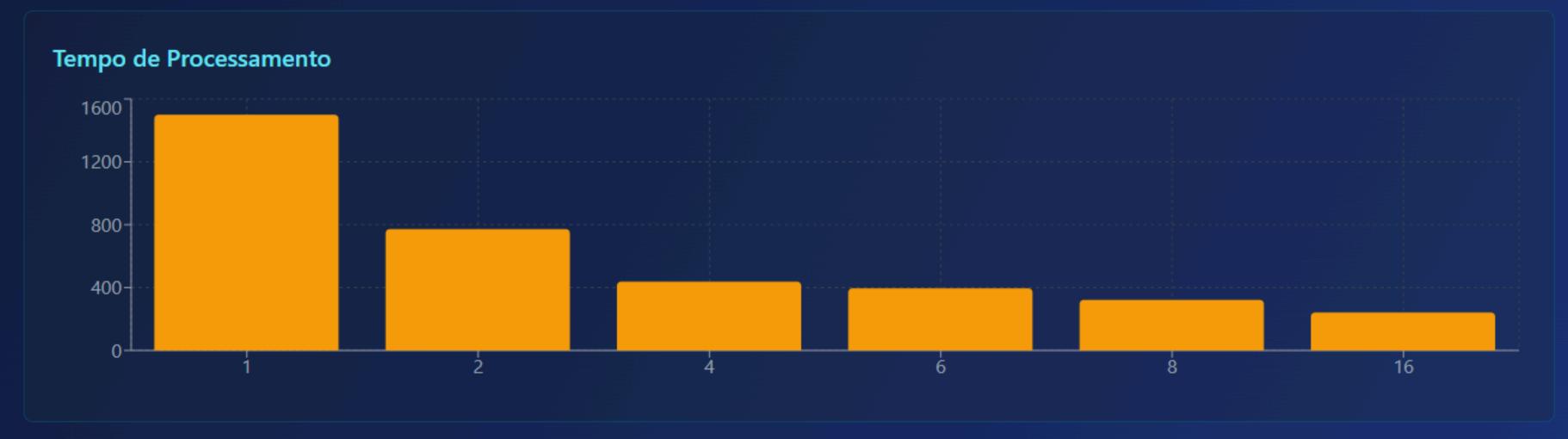
Análise de Performance - Detecção de Estrelas

Imagem 40GB • 161023×92023 pixels • 14,220 tiles • 438,739 estrelas detectadas









Resultados Detalhados

Threads	Tempo	Speed-up	Eficiência	Tiles/s
1	20:14	1.00×	100.0%	11.7
2	09:05	1.94×	97.1%	26.1
4	04:30	3.43×	85.6%	32.6
6	02:25	3.79×	63.2%	36.0
8	01:21	4.66×	58.3%	44.9
16	00:39	6.22×	38.9%	59.0

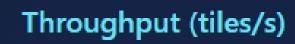
Insights da Análise

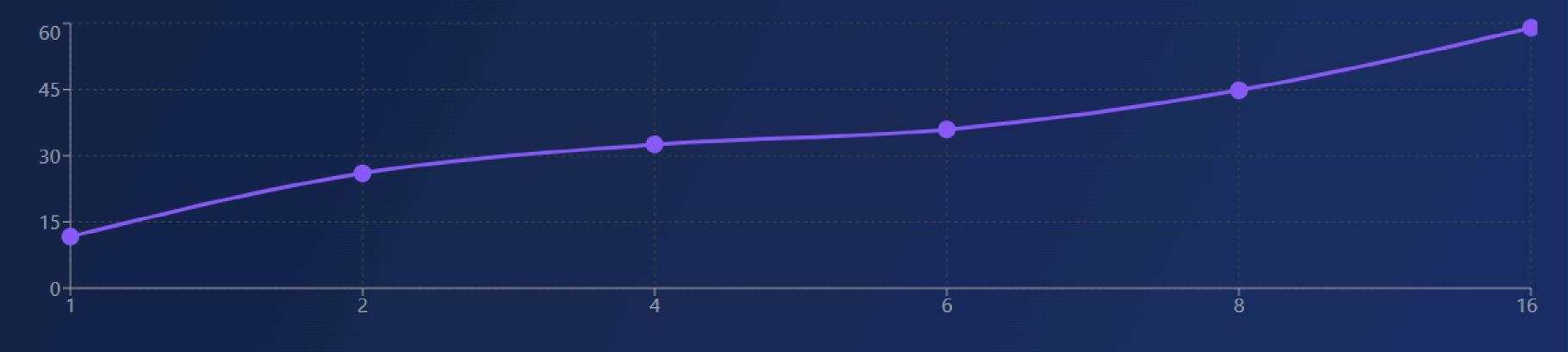
→ Pontos Positivos:

- Speed-up de 6.22× com 16 threads (excelente!)
- 83.9% de redução no tempo de processamento
- Boa escalabilidade até 8 threads
- Throughput máximo de 59 tiles/s

▲ Observações:

- Eficiência cai após 4 threads (overhead)
- Lei de Amdahl se manifesta claramente
- Ponto ótimo entre 8-16 threads
- Possível gargalo I/O ou sincronização





Resultados Detalhados

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