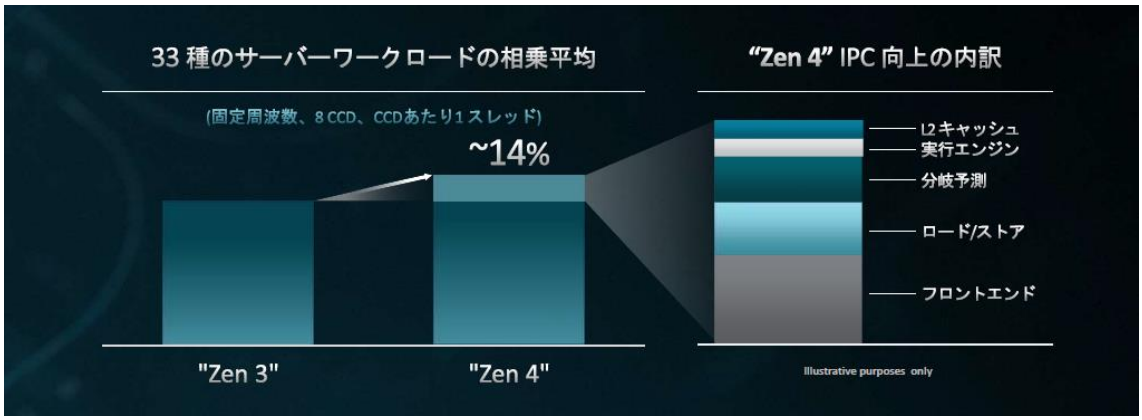
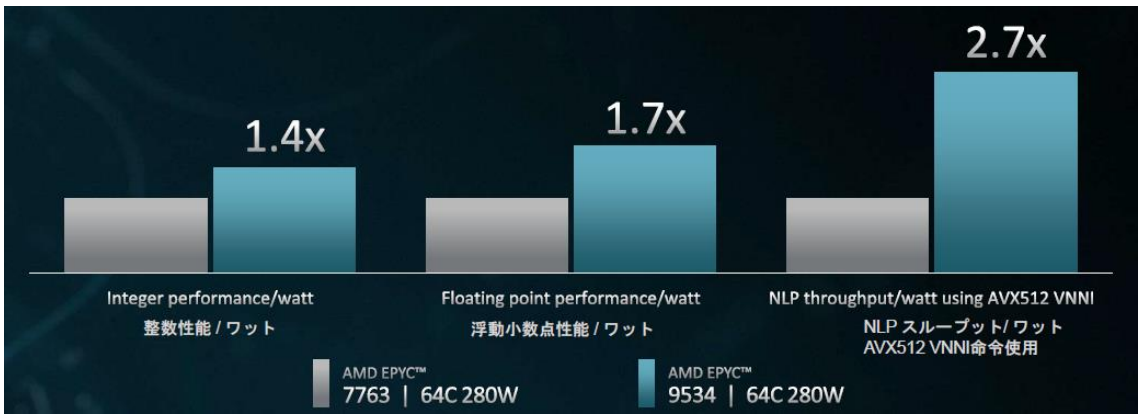
2022年12月20日

‘Zen4’コア、前世代CPUからの性能改善

1, 前世代より約14%IPC 向上(注:EPYC-038)



2. 消費電力性能向上(注:SP5-068)



EPYC-038: Based on AMD internal testing as of 09/19/2022, geomean performance improvement at the same fixed-frequency on a 4th Gen AMD EPYC™ 9554 CPU compared to a 3rd Gen AMD EPYC™ 7763 CPU using a select set of workloads (33) including est. SPECrate®2017_int_base, est. SPECrate®2017_fp_base, and representative server workloads. SPEC® and SPECrate® are registered trademarks of Standard Performance Evaluation Corporation. Learn more at spec.org.

SP5-068: SPECrate®2017_int_base, SPECrate®2017_fp_base, and BERT-large estimates based on internal AMD reference platform measurements of 11/3/2022. Floating-point throughput comparison: 2P AMD EPYC 9534 (1030 est. SPECrate®2017_fp_base, 560 Total TDP W, 128 Total Cores) is 1.66x the performance/W of published 2P AMD EPYC 7763 (622 est. SPECrate®2017_fp_base, 560 Total TDP W, 128 Total Cores). Integer throughput comparison: 2P AMD EPYC 9534 (1070 est. SPECrate®2017_int_base, 560 Total TDP W, 128 Total Cores) is 1.34x the performance/W of published 2P AMD EPYC 7763 (800 est. SPECrate®2017_int_base, 560 Total TDP W, 128 Total Cores). Bert-Large NLP sparse INT8 comparison: 2P AMD EPYC 9534 (345.6 items/sec, 560 Total TDP W, 128 Total Cores) is 2.67x the performance/W of published 2P AMD EPYC 7763 (129.7 items/sec, 560 Total TDP W, 128 Total Cores). SPEC®, SPEC CPU®, and SPECrate® are registered trademarks of the Standard Performance Evaluation Corporation. See www.spec.org for more information. OEM published scores will vary based on system configuration and determinism mode used (default cTDP performance profile).