

Machine Amazon EC2 dedicated host (Oregon region)

- CPU: m5.large

- GPU: p3.2xlarge

OS: Amazon Deep Learning AMI

Docker restriction:

- CPU: 1 core

- Host RAM: 4GiB

GPU: 1 x Tesla V100

NVIDIA driver version: 384.111

Meaning of colors:

- Blue columns: raw metrics (obtained directly from the host environment)

- Red columns: calculated metrics

- Green boxes: best scores

- Gray values: invalid (no-meaning) values/baseline values

Note: baseline systems are not strongly optimized for this task. Please rely more on the submitted systems!

Environment	Test Corpus	Team	System	Image Size [MiB]	CPU Usage [s]	Wall Time [s]	Wall Time: *** - Empty [s]	Peak Memory: Host [MiB]	Peak Memory: GPU [MiB]	Peak Memory: Host + GPU [MiB]	BLEU	NIST
CPU	Empty	Marian	cpu-transformer-base-aan	493.20	6.48	6.55	0.00	531.39	0	531.39	0.00%	0.000
CPU	Empty	Marian	cpu-transformer-big	1085.93	7.01	9.02	0.00	1768.56	0	1768.56	0.00%	0.000
CPU	Empty	Marian	cpu-transformer-big-int8	1085.92	7.31	7.51	0.00	1193.13	0	1193.13	0.00%	0.000
CPU	Empty	Marian	cpu-transformer-small-aan	367.92	6.32	6.33	0.00	367.22	0	367.22	0.00%	0.000
CPU	Empty	OpenNMT	cpu1	339.02	0.64	0.65	0.00	403.86	0	403.86	0.00%	0.000
CPU	Empty	OpenNMT	cpu2	203.89	0.56	0.56	0.00	194.61	0	194.61	0.00%	0.000
CPU	Empty	Organizer	echo	110.42	0.05	0.06	0.00	1.15	0	1.15	0.00%	0.000
CPU	Empty	Organizer	nmt-1cpu	1668.25	1.50	1.50	0.00	1699.71	0	1699.71	0.00%	0.000
CPU	WMT14 En-De newstest2014	Marian	cpu-transformer-base-aan	493.20	281.72	281.80	275.25	761.07	0	761.07	27.44%	7.362
CPU	WMT14 En-De newstest2014	Marian	cpu-transformer-big	1085.93	1539.34	1541.00	1531.98	1681.81	0	1681.81	28.12%	7.436
CPU	WMT14 En-De newstest2014	Marian	cpu-transformer-big-int8	1085.92	1173.32	1173.41	1165.90	2084.66	0	2084.66	27.50%	7.355
CPU	WMT14 En-De newstest2014	Marian	cpu-transformer-small-aan	367.92	100.36	100.42	94.08	476.21	0	476.21	25.99%	7.169
CPU	WMT14 En-De newstest2014	OpenNMT	cpu1	339.02	471.41	471.43	470.78	458.08	0	458.08	25.77%	7.140
CPU	WMT14 En-De newstest2014	OpenNMT	cpu2	203.89	77.41	77.42	76.86	219.79	0	219.79	23.11%	6.760
CPU	WMT14 En-De newstest2014	Organizer	echo	110.42	0.05	0.06	0.00	1.20	0	1.20	2.79%	1.479
CPU	WMT14 En-De newstest2014	Organizer	nmt-1cpu	1668.25	4436.08	4436.27	4434.77	1770.69	0	1770.69	16.79%	5.545
CPU	WMT14 En-De newstest2015	Marian	cpu-transformer-base-aan	493.20	223.86	223.96	217.41	749.29	0	749.29	29.59%	7.452
CPU	WMT14 En-De newstest2015	Marian	cpu-transformer-big	1085.93	1189.04	1190.97	1181.95	1712.08	0	1712.08	30.56%	7.577
CPU	WMT14 En-De newstest2015	Marian	cpu-transformer-big-int8	1085.92	907.95	908.43	900.92	2086.02	0	2086.02	30.15%	7.514
CPU	WMT14 En-De newstest2015	Marian	cpu-transformer-small-aan	367.92	80.21	80.25	73.92	461.27	0	461.27	28.61%	7.312
CPU	WMT14 En-De newstest2015	OpenNMT	cpu1	339.02	368.93	368.95	368.30	455.21	0	455.21	28.60%	7.346
CPU	WMT14 En-De newstest2015	OpenNMT	cpu2	203.89	59.02	59.02	58.46	217.64	0	217.64	25.75%	6.947
CPU	WMT14 En-De newstest2015	Organizer	echo	110.42	0.05	0.06	0.00	1.11	0	1.11	3.24%	1.599
CPU	WMT14 En-De newstest2015	Organizer	nmt-1cpu	1668.25	3401.99	3402.14	3400.64	1771.35	0	1771.35	18.66%	5.758
GPU	Empty	edin-amun	fastgru	4823.43	4.18	4.24	0.00	442.55	668	1110.55	0.00%	0.000
GPU	Empty	edin-amun	milstm.1280	5220.72	4.44	4.50	0.00	664.88	540	1204.88	0.00%	0.000
GPU	Empty	Marian	gpu-amun-tinyrn	399.08	4.27	4.33	0.00	346.80	522	868.80	0.00%	0.000
GPU	Empty	Marian	gpu-transformer-base-aan	686.59	5.62	5.68	0.00	487.18	484	971.18	0.00%	0.000
GPU	Empty	Marian	gpu-transformer-big	1279.32	6.00	6.05	0.00	1085.29	484	1569.29	0.00%	0.000
GPU	Empty	Marian	gpu-transformer-small-aan	564.32	5.48	5.54	0.00	366.26	484	850.26	0.00%	0.000
GPU	Empty	NICT	marian-st	2987.57	5.78	5.84	0.00	510.43	484	994.43	0.00%	0.000
GPU	Empty	Organizer	nmt-1gpu	3729.40	3.73	3.80	0.00	378.81	640	1018.81	0.00%	0.000
GPU	WMT14 En-De newstest2014	edin-amun	fastgru	4823.43	5.68	5.74	1.50	456.29	1232	1688.29	17.74%	5.783
GPU	WMT14 En-De newstest2014	edin-amun	milstm.1280	5220.72	8.64	8.70	4.20	686.29	5144	5830.29	23.85%	6.833
GPU	WMT14 En-De newstest2014	Marian	gpu-amun-tinyrn	399.08	5.90	5.96	1.63	346.93	1526	1872.93	24.06%	6.879
GPU	WMT14 En-De newstest2014	Marian	gpu-transformer-base-aan	686.59	14.58	14.64	8.95	492.91	1350	1842.91	27.80%	7.415
GPU	WMT14 En-De newstest2014	Marian	gpu-transformer-big	1279.32	36.74	36.80	30.74	1081.69	2070	3151.69	28.34%	7.486
GPU	WMT14 En-De newstest2014	Marian	gpu-transformer-small-aan	564.32	12.46	12.52	6.97	366.55	1228	1594.55	26.34%	7.219
GPU	WMT14 En-De newstest2014	NICT	marian-st	2987.57	82.07	82.14	76.30	922.53	1780	2702.53	27.59%	7.375
GPU	WMT14 En-De newstest2014	Organizer	nmt-1gpu	3729.40	51.24	51.30	47.50	377.18	2178	2555.18	16.79%	5.545
GPU	WMT14 En-De newstest2015	edin-amun	fastgru	4823.43	5.41	5.47	1.23	473.72	1680	2153.72	19.26%	5.905
GPU	WMT14 En-De newstest2015	edin-amun	milstm.1280	5220.72	8.15	8.22	3.71	684.84	6090	6774.84	26.51%	7.015
GPU	WMT14 En-De newstest2015	Marian	gpu-amun-tinyrn	399.08	5.62	5.68	1.35	350.19	1982	2332.19	26.86%	7.065
GPU	WMT14 En-De newstest2015	Marian	gpu-transformer-base-aan	686.59	12.67	12.73	7.04	489.62	1350	1839.62	30.10%	7.526
GPU	WMT14 En-De newstest2015	Marian	gpu-transformer-big	1279.32	30.81	30.90	24.84	1082.52	2198	3280.52	30.87%	7.630
GPU	WMT14 En-De newstest2015	Marian	gpu-transformer-small-aan	564.32	11.04	11.10	5.56	372.56	1228	1600.56	28.87%	7.379

GPU	WMT14 En-De newstest2015	NICT	marian-st	2987.57	72.84	72.90	67.06	929.70	1778	2707.70	30.19%	7.541
GPU	WMT14 En-De newstest2015	Organizer	nmt-1gpu	3729.40	39.95	40.01	36.21	383.02	2178	2561.02	18.66%	5.758