

Linear Network	Regular(MB)	Chen(MB)	Re-forwarding (ours) (MB)	Measured Ratios	Theoretical Ratios
Alexnet batch size 1024	3550	3108	2620	0.7380	0.5787
vgg11 batch size 64	2976	2292	1802	0.6055	0.4961
vgg13 batch size 64	4152	2586	2586	0.6228	0.5305
vgg16 batch size 64	4470	2894	2586	0.5785	0.4928
vgg19 batch size 64	4788	2894	2502	0.5226	0.4668
Non-linear Network	Regular(MB)	Chen(MB)	Re-forwarding (ours)(MB)	Measured Ratios	Theoretical Ratios
Resnet18 batch size 256	5402	2898	2898	0.5365	0.3720
Resnet34 batch size 128	3900	1936	1544	0.3959	0.2726
Resnet50 batch size 64	5206	2332	1798	0.3454	0.2482
Resnet101 batch size 32	3812	1216	970	0.2545	0.1887
Resnet152 batch size 16	2810	636	564	0.2007	0.1593
Densenet121 batch size 32	3984	1012	776	0.1948	0.1861
Densenet161 batch size 16	3658	744	616	0.1684	0.1583
Densenet169 batch size 32	4826	998	848	0.1757	0.1616
Densenet201 batch size 16	3164	600	582	0.1839	0.1432
Inceptionv3 batch size 32	2976	1026	910	0.3058	0.2376