

Benchmarks	Overall (Light vs Full)	Code	Light TF time (s)	TF time (s)	Result	Reason
UT-2 (buggy)	(4.2, 3.8) (slow)	import tensorflow	2.7	1.1	Slower	No idea!
		tf.Variable declaration	e-5	e-3	Much faster	Expected
		<b>Session</b>	<b>e-4</b>	<b>0.1</b>	<b>Much faster</b>	<b>Expected</b>
UT-5 (buggy)	(6.4, 7.2) (faster)	importing from TF	5.2	3.5	Slower	No idea!
		Loading data	0.6	0.6	Same	Expected
		TF operations 1	1e-3	0.33	Much faster	Expected
		TF operations 2	e-4	1.8	Much faster	Expected
		Python + TF operations	0.12	0.25	Faster	Expected
		<b>Session run</b>	<b>e-4</b>	<b>e-3</b>	<b>Faster</b>	<b>Expected</b>
UT-6 (buggy)	(3.9, 2.2) (slow)	importing TF	2.7	1.1	Slower	No idea!
		TF operations 1	e-5	e-2	Much faster	Expected
		<b>Session run</b>	<b>e-3</b>	<b>e-2</b>	<b>Faster</b>	<b>Expected</b>
UT-10 (buggy)	(4.6, 3.1) (slow)	importing TF	2.7	1.1	Slow	No Idea!
		Data loading	0.8	0.8	Similar	Expected
		TF operations	e-4	e-3	Faster	Expected
		<b>Session Run</b>	<b>e-4</b>	<b>0.1</b>	<b>Much faster</b>	<b>Expected</b>
UT-5 (correct)	(6, 99) (faster)	importing TF	5.1	3.5	Slow	No idea!
Without fixed-point		Data loading	0.6	0.6	Similar	Expected
		Model Construction	e-3	2.1	Much faster	Expected
		Training (2K epochs)	0.4	93	Much faster	Expected
		<b>Testing (session)</b>	<b>e-4</b>	<b>0.05</b>	<b>Much faster</b>	<b>Expected</b>
UT-13 (correct)	(4.3, 19.3) (faster)	importing TF	2.7	1.1	Slower	No idea!
		Model construction	e-4	0.1	Much faster	Expected
		Training (20K epochs)	1.5	18.2	Much faster	Expected
		<b>Testing</b>	<b>e-4</b>	<b>0.03</b>	<b>Much faster</b>	<b>Expected</b>

Table 1:

Conclusion:

1. We are much faster (upto 1000 times) in model construction (as expected).
2. For parts like data-loading we are exactly similar (as expected).
3. For importing TF and its internals, we are constantly slow, I don't understand why. Need to investigate this part.
4. For session runs, we are much faster (as expected).