

### VTR7 designs

Design	Two dies		Three dies		Four dies	
	Default-VTR	FPGAPart-VTR	Default-VTR	FPGAPart-VTR	Default-VTR	FPGAPart-VTR
bgm	651.96	<b>594.05</b>	649.21	<b>467.81</b>	702.93	<b>391.48</b>
blob_merge	61.49	<b>35.73</b>	61.32	<b>41.61</b>	66.02	<b>48.35</b>
boundtop	45.5	<b>40.93</b>	<b>45.87</b>	46.64	<b>48.85</b>	51.22
diffeq1	6.59	<b>3.97</b>	6.86	<b>4.84</b>	7.15	<b>6.01</b>
diffeq2	5.05	<b>3.35</b>	5.09	<b>1.43</b>	6.15	<b>1.45</b>
LU32PEEng	2560.43	<b>1145.24</b>	2753.01	<b>1142.46</b>	3374.38	<b>1150.39</b>
LU8PEEng	431.58	<b>199.69</b>	416.06	<b>200.27</b>	427.37	<b>199.15</b>
mcml	2209.24	<b>1469.25</b>	2225.12	<b>1483.13</b>	2342.68	<b>1464.41</b>
mkDelayWork	85.57	<b>43.62</b>	84.92	<b>43.84</b>	89.87	<b>43.72</b>
mkPktMerge	9.25	<b>3.49</b>	9.21	<b>3.59</b>	9.59	<b>3.49</b>
or1200	38.81	<b>17.99</b>	38.19	<b>18.09</b>	38.75	<b>18.11</b>
raygentop	45.89	<b>41.78</b>	25.97	<b>23.52</b>	26.13	<b>24.05</b>
sha	23.32	<b>9.72</b>	23.75	<b>10.89</b>	24.09	<b>16.94</b>
stereovision0	94.79	<b>79.11</b>	97.86	<b>97.78</b>	106.99	<b>104.03</b>
stereovision1	133.62	<b>117.59</b>	137.11	<b>134.67</b>	140.56	<b>135.39</b>
stereovision2	594.42	<b>458.72</b>	593.886	<b>431.58</b>	612.89	<b>471.37</b>

### Koios designs

Design	Two dies		Three dies		Four dies	
	Default-VTR	FPGAPart-VTR	Default-VTR	FPGAPart-VTR	Default-VTR	FPGAPart-VTR
bnn	7427.5	<b>3008.9</b>	6721.21	<b>5140.27</b>	6252.91	<b>4282.01</b>
bwave_like.fixed	471.49	<b>281.23</b>	446.79	<b>420.51</b>	<b>414.93</b>	458.33
clstm_like.medium	20745.77	<b>10825.9</b>	20652.1	<b>20242.5</b>	<b>15214.9</b>	15907.21
clstm_like.small	5255.6	<b>5093.1</b>	5281.1	<b>5068.21</b>	5076.41	<b>4440.71</b>
conv_layer_hls	<b>134.05</b>	189.21	<b>123.89</b>	156.99	<b>150.84</b>	183.54
dla_like.small	3254.52	<b>2726.65</b>	3938.78	<b>3552.21</b>	3703.49	<b>3600.06</b>
eltwise_layer	157.69	<b>105.96</b>	155.4	<b>148.85</b>	244.89	<b>121.73</b>
lenet	196.45	<b>79.26</b>	203.83	<b>166.69</b>	408.18	<b>341.89</b>
lstm	3795.71	<b>3781.44</b>	2972.13	<b>2906.7</b>	3290.82	<b>3061.76</b>
reduction_layer	187.81	<b>112.39</b>	132.32	<b>110.51</b>	134.27	<b>130.73</b>
robot_rl	208.96	<b>155.74</b>	345.67	<b>236.28</b>	352.89	<b>326.08</b>
softmax	446.34	<b>151.43</b>	270.37	<b>167.15</b>	259.36	<b>242.51</b>
spmvp	243.96	<b>210.17</b>	294.22	<b>218.41</b>	285.84	<b>279.26</b>
tpu_like.small.c	929.81	<b>880.69</b>	922.17	<b>718.11</b>	984.91	<b>861.58</b>
<a href="#">tpu_like.small.v</a>	<b>995.31</b>	996.69	969.11	<b>858.31</b>	787.98	<b>724.87</b>

