

Figure 1: pegasus_v_chimera_uc.tikz: shows extra edges added to chimera unit cell to make Pegasus unit cell

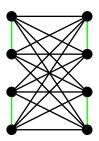


Figure 2: pegasus_v_chimera_uc_k44.tikz: shows extra edges added to chimera unit cell to make Pegasus unit cell



Figure 3: $all_{to}aux.tikz$

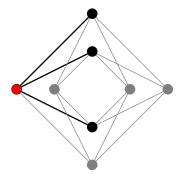


Figure 4: all_to_aux_chimera.tikz

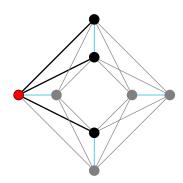


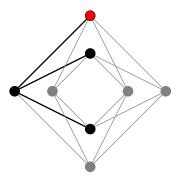
Figure 5: all_to_aux_pegasus.tikz

Gadgets with adjacency graph corresponding to all_to_aux.tikz ($\begin{cal} \begin{cal} \begin{cal} \end{cal} \end{cal}$

- NTR-KZFD
- NTR-ABCG



Figure 6: logical_fork.tikz



 $Figure~7:~logical_fork_chimera.tikz$

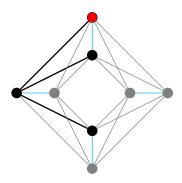


Figure 8: logical_fork_pegasus.tikz

Gadgets with adjacency graph corresponding to logical_fork.tikz ($\begin{cal} \clip{cal} \end{cal}$):

• NTR-ABCB



Figure 9: k4_missing_2edge.tikz

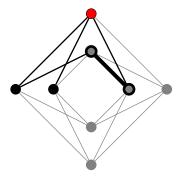


Figure 10: k4_missing_2edge_chimera.tikz

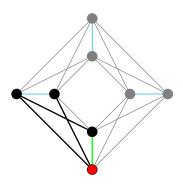


Figure 11: k4_missing_2edge_pegasus.tikz

Gadgets with adjacency graph corresponding to k4_missing_2edge.tikz ($\buildrel \buildrel \bui$

• Asymmetric reduction



Figure 12: k4_missing_edge.tikz

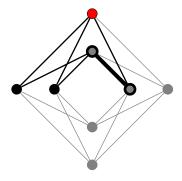


Figure 13: k4_missing_edge_chimera.tikz

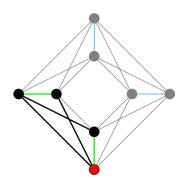


Figure 14: k4_missing_edge_pegasus.tikz

• Asymmetric cubic reduction



Figure 15: k4.tikz

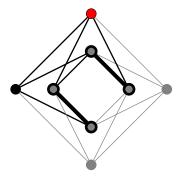


Figure 16: k4_chimera.tikz

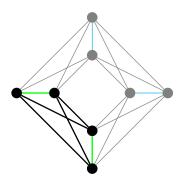


Figure 17: k4_pegasus.tikz

- PTR-Ishikawa
- PTR-BCR (1-4)
- PTR-KZ
- Z version of PTR-KZ

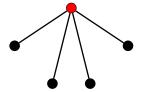


Figure 18: all_to_aux4.tikz

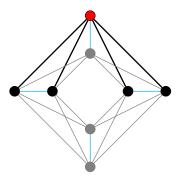


Figure 19: all_to_aux4_inPegasus.tikz

Gadgets with adjacency graph corresponding to all_to_aux4.tikz(\ \ \ \ \ \ \ \):

• NTR-KZFD

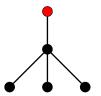


Figure 20: logical_fork3.tikz

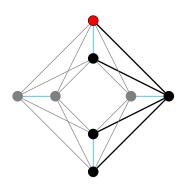


Figure 21: logical_fork3_inPegasus.tikz

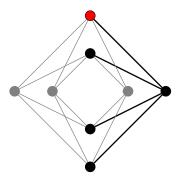


Figure 22: logical_fork3_inChimera.tikz

Gadgets with adjacency graph corresponding to logical_fork3.tikz():

• NTR-ABCB

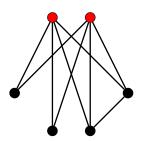


Figure 23: $2aux_to_all_{1conn.tikz}$

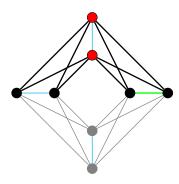


Figure 24: 2aux_to_all4_1conn_inPegasus.tikz

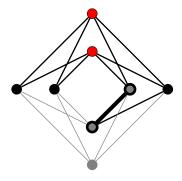


Figure 25: 2aux_to_all4_1conn_inChimera.tikz

 $Gadgets\ with\ adjacency\ graph\ corresponding\ to\ 2aux_to_all4_1conn.tikz($



• positive term reduction

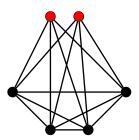


Figure 26: $2aux_to_all4_allConn.tikz$

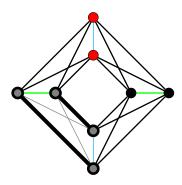


Figure 27: $2aux_to_all4_allConn_inPegasus.tikz$



• PTR-Ishikawa

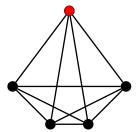


Figure 28: $aux_to_all_allConn.tikz$

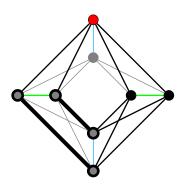


Figure 29: aux_to_all4_allConn_inPegasus.tikz

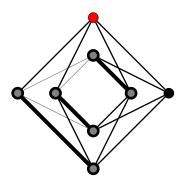


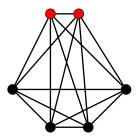
Figure 30: aux_to_all4_allConn_inChimera.tikz

 $Gadgets\ with\ adjacency\ graph\ corresponding\ to\ aux_to_all4_allConn.tikz(interval) and in the control of the control of$



• PTR-BCR-2

• PTR-BCR-4



 $Figure~31:~2auxConn_to_all4_allConn.tikz$

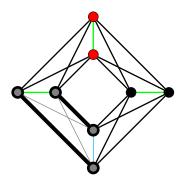


Figure 32: 2auxConn_to_all4_allConn_inPegasus.tikz

 ${\it Gadgets\ with\ adjacency\ graph\ corresponding\ to\ 2auxConn_to_all4_allConn.tikz}(^{\bullet}$



• PTR-BCR-3

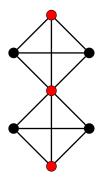


Figure 33: $2k4_shared_aux.tikz$

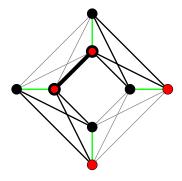


Figure 34: 2k4_shared_aux_inPegasus.tikz

Gadgets with adjacency graph corresponding to 2k4_shared_aux.tikz($\stackrel{\longleftarrow}{\smile}$):

- Two copies of PTR-KZ sharing an auxilla
- $\bullet\,$ Two copies of z-version of PTR-KZ sharing an auxilla