Tracks from PRM:
• Road #
• Sector #
• Hits on 8 layers
• Hit map

Clusters from 5 other detector layers

Data Organizer
Write mode:
• Clusters → SSIDs
• Store clusters by SSID
Read mode:
• Extract clusters around extrapolation point

Clusters near 8-layer tracks

Extrapolator
• Linear extrapolation of 8-layer track
• Output: SSIDs in 5 additional layers

8-layer track

Constant memory

Track Fitter
• Calculate $\chi''$
• Cut on $\chi''$
• Calculate helix parameters

Constants memory

Combiner
• Creates all combinations of single layer clusters around a track
• Allows for 1 or 2 empty layers

1 cluster/layer

Clustering near 8-layer tracks

TFM

Tracks to TFM-TP:
• Hits
• $\chi^2$
• Helix parameters
• Road #
• Hit map

1 cluster/layer

8-layer track

Constant memory