Profiling results:

Full scan TRT (B-physics events with pile up)

ms/event 300 MHz PC	**ms/event** 400 MHz Alpha	**speed factor**	**method name**
C++ Ref. Soft.	**C** DAQ-120		
96.34	84.0	1.1	Endcap::histogram()
37.94	28.0	1.4	Barrel::histogram()
31.86	27.0	1.2	Endcap::isolate_tracks()
28.42	2.8	10.1	Barrel::split_tracks()
27.36	—	—	Barrel::fill_result()
13.76	8.0	1.7	Endcap::apply_threshold() (including 2D max. find)
12.44	6.0	2.1	Endcap::find_max() + separate_tracks()(with fit)
9.58	—	—	Endcap::fill_result()
7.18	6.0	1.2	Barrel::find_max()
5.76	—	—	Endcap::fill_event()
2.50	1.0	2.5	Barrel::select_final_tracks + fit_tracks()
1.02	—	—	Barrel::fill_event()
274.16	162.8	**1.7**	TrtLutHough::extract()