



→ FACET Timing consists of Two separate but parallel timing systems: the legacy SLC Timing System, which is CAMAC based and the new Event Timing System, which is VME based. Both systems receive the 476MHz master accelerator clock with 360Hz fiducial from the Linac Main Drive Line. This combined signal is used, along with the PNET data to form triggers.

The 360Hz Fiducial is the heartbeat or metronome of the timing system: all timing activities are initiated and based off of it.

Triggers are divided into six timeslots, which are based on the zero crossing times of the three AC power line phases. The MPG receives the timeslot 1 reference and calculates the other timeslots from this.

