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# Hlt1Line

## Example

```
class HltL0LinesConf(LHCbConfigurableUser) :
    __slots__ = { 'Prescale' : 1
                  , 'Postscale' : 0.000001
                  , 'L0Channels' : [] # if empty, use all pre-defined channels
                }
    def __apply_configuration__(self):
        channels = self.getProp('L0Channels')
        if not channels : channels = L0Channels()
        for channel in channels :
            Line ( 'L0' + channel
                  , LODU = "L0_CHANNEL('"+channel+"')"
                  , prescale = self.getProp('Prescale')
                  , algos = [ convertL0Candidates(channel) ]
                  , postscale = self.getProp('Postscale')
                )
```

If an L0 TCK is explicitly specified, HltConf().L0TCK = ... goes out and finds the configured L0 channels, otherwise default to the 'canonical' list of L0Channels Note: HltConf().L0TCK does NOT configure the LODU to use this TCK, it is intended to be set by the configuration layer 'above' HltConf which also actually configures L0... It is there such that at configuration time, one can check that only L0 channels which exist get used, and allow to check (partly) the consistency between L0 & HLT

## Configure Hlt1Lines

Configuration of Hlt1Lines is triggered through HltConf().hltType = ...

Hlt1 is defined as

```
Hlt1 == L0+VE+LU+MU+HA+EL+PH
```

HltType configures lines, then they get added to the Hlt1 sequencer this is in a **postconfig** step (which has confused some) because there is some (small) order dependence (eg. Hlt1Global and Hlt1IgnoringLumi) this can only be made after the rest.

## Hlt1 Alleys

Hlt1Lines are grouped together in alleys.

PA	Pass through
L0	L0
VE	velo
LU	Luminosity
MU	Muons (includes mu+track)
HA	Hadrons
EL	Electrons
PH	Photons
BG	Beam Gass

There is one .py-File per alley, that lists all the lines in that alley.

-- StephanNies - 12 Apr 2009

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