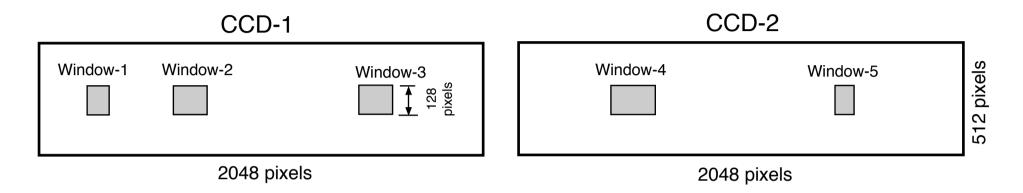
Solar-B EIS CCD Windowing



Concepts:

- Windows for an exposure must all be <u>same height</u> and have <u>same veritical position</u> on CCD.
- Windows for an exposure can have different widths.
- Up to 16 windows (TBC) can be specified for each exposure.
- It is expected that common operations will use a window height of ~128 pixels.

Example: Shows 5 windows defined for an exposure, each 128 pixels high and of varying widlth.

- EIS 'nominal' telemetry allocation of 64kbps would allow 1 window (128 pixels high and 32 pixels wide) per second.
- 5 such windows could be achieved by e.g. lossless CR=2, data packing, 'log' compression to 8 bits, and reduced data cadence.
- Greatest benefit would be use of higher telemetry allocaton -> less collected data to be lost (more lines collected over higher spatial region), higher cadence rates, and less data compression losses.
- Other data compression options include lossy general schemes, reduced height/width windows, reduced data spatial or wavelength resolution by e.g. data integration.