// Load edt config for all 4 channels sprintf(command, "%s:\\EDT\\pdv\\initcam -u pdv0\_0 -f %s", home\_drive, edt\_cfg\_name); system(command); sprintf(command, "%s:\\EDT\\pdv\\initcam -u pdv0\_1 -f %s", home\_drive, edt\_cfg\_name); system(command); sprintf(command, "%s:\\EDT\\pdv\\initcam -u pdv1\_0 -f %s", home\_drive, edt\_cfg\_name); system(command); sprintf(command, "%s:\\EDT\\pdv\\initcam -u pdv1\_1 -f %s", home\_drive, edt\_cfg\_name); system(command);

// Open device pointer for all 4 channels, same for close for (i = 0; i < pdv\_chan\_num; i++) pdv\_pt[i] = pdv\_open\_channel(EDT\_INTERFACE, pdv\_units[i], pdv\_channels[i]);

// Serial commands int hbin = 0; if (ccd\_lib\_bin[curConfig] > 1) hbin = 1; int start\_line; if (start\_line\_lib[curConfig]) start\_line = start\_line\_lib[curConfig]; else start\_line = 65 + (1024-cam\_num\_row\*ccd\_lib\_bin[curConfig]); sprintf(command,"@SPI 0; 2"); SM\_serial\_command(command); Sleep(20); sprintf(command,"@SPI 0; 0"); SM\_serial\_command(command); Sleep(20); sprintf(command,"@SPI 0; 4"); SM\_serial\_command(command); Sleep(20); sprintf(command,"@PSR %d; %d", ccd\_lib\_bin[curConfig], start\_line); SM\_serial\_command(command); Sleep(20); sprintf(command,"@SPI 0; %d", hbin); SM\_serial\_command(command); Sleep(20);// Setgap for 2K - important sprintf(command, "%s:\\EDT\\pdv\\setgap2k", home\_drive); system(command);// Acqusition needs to be done for all 4 channels and then you need to deinterleave after. Bigger chunk (super frames of 10 to 100 or more frames depending the image size) and multithread acquisition is needed to avoid losing synch or losing frames.