

Inner Sensor Alignment

New Results

Parameter	Input	Output	Error	Global Corr.
Δu (μm)	100.0	97.2	2.0	0.002
Δv (μm)	100.0	99.3	1.1	0.955
$\Delta\gamma$ (mrad)	1.000	0.995	0.012	0.955

Parameter	Input	Output	Error	Global Corr.
Δu (μm)	50.0	46.9	1.6	0.004
Δv (μm)	50.0	50.3	0.8	0.955
$\Delta\gamma$ (mrad)	1.000	0.983	0.010	0.955

Parameter	Input	Output	Error	Global Corr.
Δu (μm)	0.0	-4.7	2.9	0.004
Δv (μm)	100.0	99.5	1.5	0.955
$\Delta\gamma$ (mrad)	1.000	0.991	0.017	0.955

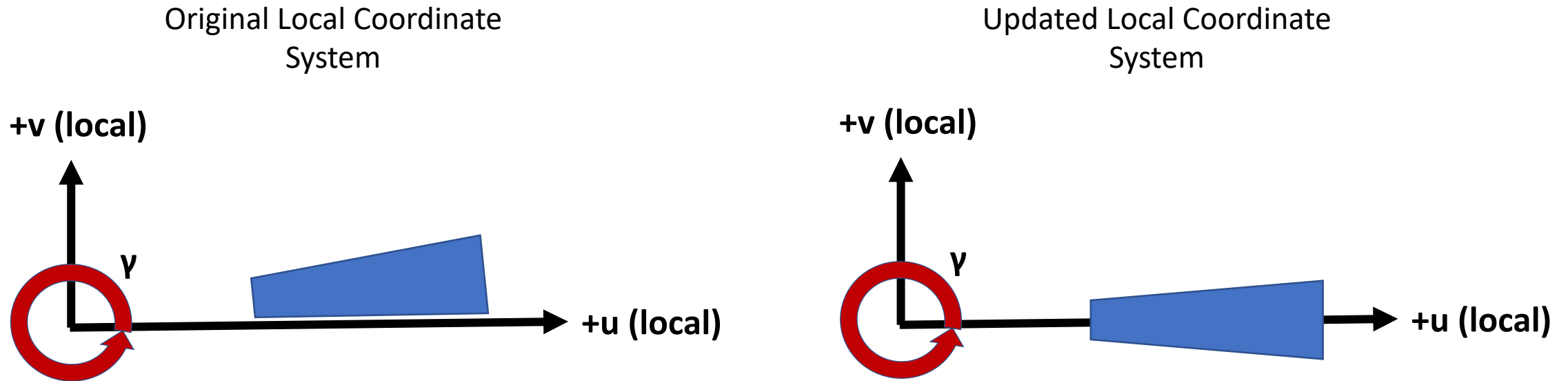
Old Results

- I accidentally removed some of the files involved in alignment and therefore needed to rewrite the alignment.
- I am not sure what would have changed, but the results seem to be slightly improved.
- Try $\Delta\gamma = 2$ mrad, $\Delta u = \Delta v = 50$ μm to compare to old results. Then iterate.

Parameter	Input	Output	Error	Global Corr.
Δu (μm)	50.0	43.4	2.8	0.004
Δv (μm)	50.0	43.0	1.4	0.955
$\Delta\gamma$ (mrad)	1.00	0.97	0.02	0.955

Parameter	Input	Output	Error	Global Corr.
Δu (μm)	0	-3.8	2.8	0.006
Δv (μm)	100.0	85.1	1.4	0.955
$\Delta\gamma$ (mrad)	1.00	1.05	0.02	0.955

Outer Sensor Alignment



- Local coordinate system will be shifted such that the +u axis is along the center of the strip.
- Plan to run tests today.