

Table Showing Triclops Library Performance Over Different Processor and Memory Configurations

Date March 17/2004
 Triclops Library Version 3.2a05
 Operating System Windows XP

Parameters

Image Resolution 320x240
 Subpixel Interpolation On
 Edge Based Correlatio On
 Stereo Mask 15
 Edge Mask 11
 Disparities 32

Processor	Speed	Memory	Kernel	Preprocessing		Stereo		Overall Speed		Disparity
	(GHz)	(MB)		(ms)	(Hz)	(ms)	(Hz)	(ms)	(Hz)	Calculatio nillions/sec
Intel PIII	0.45	256	3CAM	37	27	146	7	183	5	13
Intel PIII	0.45	256	2CAM	24	42	65	15	89	11	28
Intel PIII	0.85	0	3CAM	21	48	98	10	119	8	21
Intel PIII	0.85	0	2CAM	14	71	25	40	39	26	63
Intel PIV	1.7	384	3CAM	8	125	36	28	44	23	56
Intel PIV	1.7	384	2CAM	5	200	18	56	23	43	107
Intel PIV	1.8	392	3CAM	8	125	43	23	51	20	48
Intel PIV	1.8	392	2CAM	5	200	17	59	22	45	112
AMD Athlon	1.8	256	3CAM	10	100	46	22	56	18	44
AMD Athlon	1.8	256	2CAM	7	143	12	83	19	53	129
Intel Xeon	2.4	1000	3CAM	11	91	40	25	51	20	48
Intel Xeon	2.4	1000	2CAM	4	250	12	83	16	63	154
Intel PIV	2.4	1000	3CAM	6	167	22	45	28	36	88
Intel PIV	2.4	1000	2CAM	3	333	11	91	14	71	176
Intel PIV	2.8	1000	3CAM	5	200	21	48	26	38	95
Intel PIV	2.8	1000	2CAM	3	333	10	100	13	77	189
Intel PIV	2.8	1000	3CAM	5	200	19	53	24	42	102
Intel PIV	2.8	1000	2CAM	3	333	9	111	12	83	205

All calculations were done completely independent of the Digiclops or Bumblebee Stereo Vision System on a single image.

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