

Project

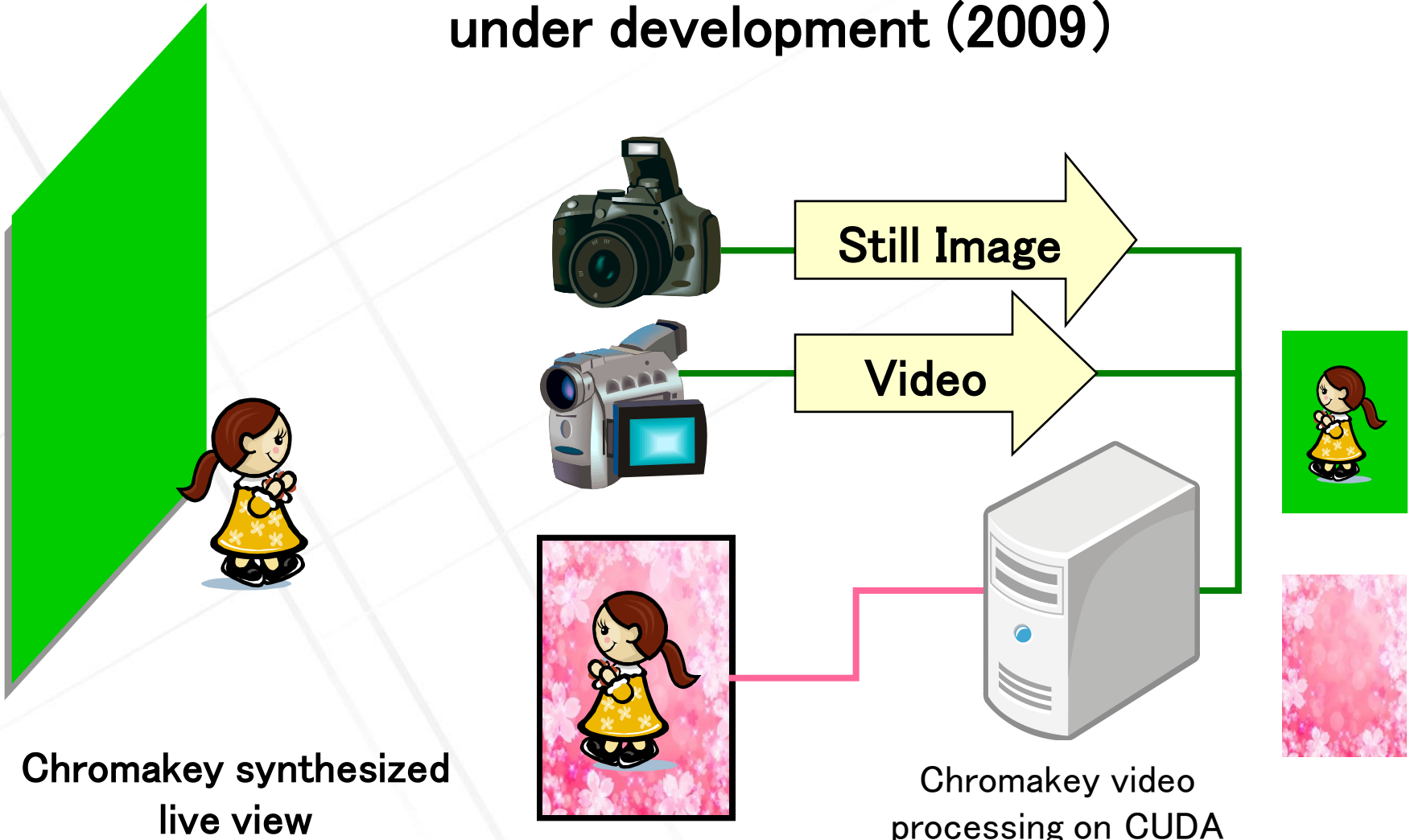


Chromakey Solution
for
Photo Studio

スタジオ System Overview



under development (2009)



Chromakey synthesized
live view

Chromakey video
processing on CUDA

Performance Estimation of chromakey processing on CUDA

- Chromakey algorithm
 - ROBUSKEY (ISP product)
- PC environment
 - OS Win XP Pro SP3
 - CPU Core2 Duo 3.33GHz
 - Memory DDR2 PC6400 4GB
 - Video card GTX 260
 - Bus PCI Express 2.0 x16

Results

- Estimation Method: 1920x1080 RGB 24bit foreground/background image synthesis
- Result:

* Average value by 10 time test

	Time (mSec)	Speed comparison
CPU	125	—
GPU	9.5	x13

The theoretical value shows that a full HD quality/full frame rate is available by using GPU.

CPU is also available when frame rate is around 8fps.