



# Report of SDME techniques at video decoder side on HM3.0

---

JCTVC-F500

Yi-Jen Chiu, Lidong Xu

Wenhao Zhang, Hong Jiang

July, 2011



# Summary of Contribution JCTVC-F500

- Integration of the self derivation of motion estimation (SDME) presented in JCTVC-E084 onto HM3.0
  - Option A: Candidate-based SDME (C-SDME) without MV refinement (without motion search)
  - Option B: C-SDME with MV refinement (8-point refinement)
  - Candidate MV confinement to constrain memory access bandwidth (load data only once for both SDME and MC)
  - Applied to Skip mode only, for B-picture. MV range confined (24)
  - Performance for RA/HE test

	BD Rate	Best	Enc Time	Dec Time
Option A	-0.54%	-1.27%	102%	99%
Option B	-1.20%	-2.51%	105%	113%

- Cross-check reports: F724 & F735