

CCITT SGXV
Working Party XV/1
Specialists Group on Coding
for Visual Telephony

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Title : Thomson DCT Chip Mismatch

Source : CNET (France)

These simulations have been done on 640,000 random integer pixels ranging from -256 to +255 (results in the left column) and then on the same data sequence but with the opposite sign on each pixel (results in the right column).

1. An all-zeroes input produces an all-zeroes output

2. The peak error never exceeds 1 in magnitude

Error partition :	-1	:	4	%	4.2	%
	+1	:	3.5	%	3.4	%
	Total	:	7.5	%	7.6	%

3. Mean error :	Max. value :	0.030	0.040
	Mean value :	-0.004	-0.007

4. MSE	:	Max. value :	0.120	0.125
		Mean value :	0.074	0.074



