

















































					Canagio Melli
	Ra	dix-2 vs.	Radi	x-16	
• •	ligher radix has				
		lix-2 FP (8-bit fraction)]	
- N	Nore fraction w	idth increases	the compl	exity of multipl	ier
-	f the number of nultipliers, ther			an the number	of
Radix	Area (um ²)	Delay (ns)	Radix	Area (um ²)	Delay (ns)
2	8401	10.21	2	7893	5.8
16	7389 (-12%)	8.48 (-17%)	16	11284 (+43%)	6.62 (+14%)
7	Adder			Multiplier	

	Power A	nalysis	
IDCT in - 32-bit IEEE FI			
Widest bit	plementation uracy for constants -width is 24 in the wh		
Fixed-point im12-bit acc	plementation uracy for constants	nole algorithm (no Delay(ns) 111	t fine tuned) Power(mw) 1360
 Fixed-point im 12-bit acc Widest bit 	plementation uracy for constants -width is 24 in the wh Area(um ²)	Delay(ns)	Power(mw)





























