

























IA64		
 The ideas are not 	new	
 The willingness t 	o change the ISA is new and significant	
Implications for con	pilers	
- Increased role of	the compiler	
- More control over	r sequencing, prefetching, stores, branch pre	diction
– Hardware do	esn't "undo" the compiler's work	
Future systems		
– What is the right	division of labor between the compiler and t	he hardware?
 How else can con hardware more el 	npilers be used to simplify the hardware and ffective?	make the
– Can we improve	the communication between the compiler an	d hardware?

Epilogue		
Intel announces 64-b	vit IA-32	
– The end of IA-64		
What went wrong w	ith IA-64?	
What does the future	e hold for Dynamic Superscalar? VLIW?	
CS380P Lecture 10	Speculation and Predication	15