





Humphrey Ch. 12 - slide 2

	Verification Methods Humphrey (1995, p. 375)		
Method	Application	Comments	
Loop Verification	Program	Use on loop logic whenever	
Proper State	Loops	practical. Use during design and in reviews and	
Machines	Machines	inspections on every state machine.	
	Only		
Symbolic	Algorithmic	Use whenever it applies.	
Execution	Logic		
Proof by Induction	Loops & Recursion	Use in conjunction with trace tables.	
Trace Tables	Complex	Use for small program elements and	
	Logic	with proof by induction and/or	
		symbolic execution whenever	
		possible. Use if other verification	
		methods do not apply.	
Execution	Complex Logic	Use for small program elements and, as a last resort, when no other	
Tables	Logic	methods apply.	
Formal	Entire	Use whenever you know how to	
Verification	Program	apply the verification methods, they	
		appear feasible, and they are cost	

AU INSY 560, Winter 1997, Dan Turk Humphrey Ch. 12 - slide 5























