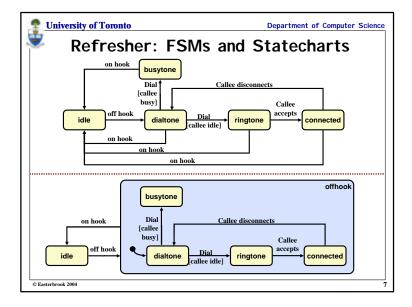


The second second	ersity of To	oronto			Depar	tment of Compu	uter Scienc
		Defi	ining N	Node (	Classe	es	
45 45 45	A complex > Each n	disjoint) set of system will h node class has	nave many dif a mode table sh	ites) that the ferent modes nowing the event tion from mod	classes is that cause	transitions betwee	en modes
	Current Mode	Powered on	Too Cold	Temp OK	Too Hot	New Mode	
	Off	@T @T @T	- t -	t - -	- - t	Inactive Heat AC	
	Inactive	@F - -	- @T -	- - -	- _ @Т	Off Heat AC	
	Heat	@F -	-	- @Т	-	Off Inactive	
	AC	@F -	-	- @Т	-	Off Inactive	
© Easterbrook	x 2004	5	ource: Adapted fre	om Heitmeyer et. al	. 1996.		

	oronto		Department of Co	mputer Sci
🖉 D(	efining Co	ntrolled	Variables	
	Dies ow a controlled vari partial function fro			
Sermes u Example:	Modes			1
	Heat, AC	@C(target)	never	
	Inactive, Off	never	@C(target)	
	Ack tone =	Beep	Clang	
	//on_lone =	Boop	olding	J
	_	lled variable unde	er every possible co	
<ul> <li>♦ defines th</li> <li>♦ Defines a</li> </ul>	Tables total function from	lled variable unde	er every possible co	
<ul> <li>♦ defines th</li> <li>♦ Defines a</li> </ul>	Tables total function from Modes	blied variable unden modes and cond	er every possible ca itions to variable va	
<ul> <li>♦ defines th</li> <li>♦ Defines a</li> </ul>	Tables te value of a contro total function from Modes Heat	blied variable unden modes and conditionation to the second secon	er every possible co tions to variable va target - temp >5	
<ul> <li>♦ defines th</li> <li>♦ Defines a</li> </ul>	Tables total function from Modes Heat AC	lied variable under modes and cond target - temp <sup>2</sup> 5 temp - target <sup>2</sup> 5	er every possible co tions to variable va target - temp >5 temp - target >5	



SCR Equivalent								
Current Mode	offhook	dial	callee offhook	New Mode				
Idle	@T	-	-	Dialtone				
Dialtone	-	@T	F	Ringtone				
	-	@T	Т	Busytone				
	@F	-	-	Idle				
Busytone	@F	-	-	Idle				
Ringtone	-	-	@T	Connected				
	@F	-	-	Idle				
Connected	-	-	@F	Dialtone				
AC	@F	-	-	Idle				
terpretation		/HEN callee_of		u to Ringing ou to Idle				

