





CLU & Exce	ption Handling
• What is an exception?	User defined / failure
• Propagation?	To caller only (except failure)
• Path searched for hand	ler? Dynamic chain
• What to do with raiser?	? Terminate
• Parameters?	Yes
• Declare exceptions thro	own? Yes
• Clean-up?	N/A (no by default)
• How handled in paralle	el? N/A
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Yemini & Berry: Exception Handling User defined • What is an exception? • Propagation? To caller • Path searched for handler? Dynamic chain • What to do with raiser? User choice (replacement model) • Parameters? Yes • Declare exceptions thrown? Yes • Clean-up? Yes • How handled in parallel environment? N/A Copyright 1999 CS655 Paul F. Reynolds, Jr.

























	Parameters	
CLU: Yes		
 See Yemini an 	d Berry for argument i	in favor
Ada: No (not eve	en Ada95)	
 result is Ada c straighten thin 	an require access to no gs out	n-locals to
 could lead to e parameter pass 	rroneous programming sing mechanism)	g (determining
• C++: Yes		
• Java: Yes		
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DDOC D (inout)	
PROC P (mout)	baram1, param2,);
BEGIN	
EXCEPTION	
WHEN excp1	=>
END	
Possible messin	g with non-locals to determine if acceptable



















Exception Hierarchies class Matherr { }; class Overflow: public Matherr { }; class Underflow: public Matherr { }; class Zerodivide: public Matherr { }; //... void g { } { try { f(); } catch (Overflow) { } // handle overflow, derived exceptions **catch (Matherr)** { } // handle any Matherr that's not overflow } Copyright 1999 CS655 Paul F. Reynolds, Jr.