

Exception Handling

Exception Handling Considerations

- What constitutes an exception?
 - Domain, Range errors
 - Cristian:
 - Omission: output not there
 - Timing: Too early / too late
 - Response: wrong output
 - Crash: no response
- When an exception is raised, how far can it propagate?
- What chain does an exception follow?
 - static
 - dynamic

Exception Handling Considerations

- What to do with exception raiser
 - Resume for certain NOTIFY
 - Resume at handler's option SIGNAL
 - Terminate ESCAPE
- Should exceptions have parameters?
- Should passed over routines be allowed to clean-up?
- How should exceptions be handled in parallel environment?

CLU & Exception Handling

- What is an exception? User defined / failure
- Propagation? To caller only (except failure)
- Path searched for handler? Dynamic chain
- What to do with raiser? Terminate
- Parameters? Yes
- Declare exceptions thrown? Yes
- Clean-up? N/A (no by default)
- How handled in parallel? N/A

Ada & Exception Handling

- What is an exception? User defined / 4.5 system defined
- Propagation? To caller
- Path searched for handler? Dynamic chain
- What to do with raiser? Terminate
- Parameters? No
- Declare exceptions thrown? No
- Clean-up? N/A (no by default)
- How handled in parallel environment? Not propagated

Yemini & Berry: Exception Handling

- What is an exception? User defined
- 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