1990 Worldwide Developers Conference

Virtual User

A User Simulation Test Tool

Panel Members

- Tom Chavez   Product Marketing
- Lew Rollins   Mgr, Process Technology
- Jay Jessen   Process Technology
- Nagarajan, P.   Process Technology
- Jim Schneider   Process Technology
- David Shayer   Process Technology
- Paul Snively   Macintosh DTS

Tom Chavez

Product Marketing
Virtual User Product Manager

Lew Rollins

Manager, Process Technology

Jay Jessen

Process Technology
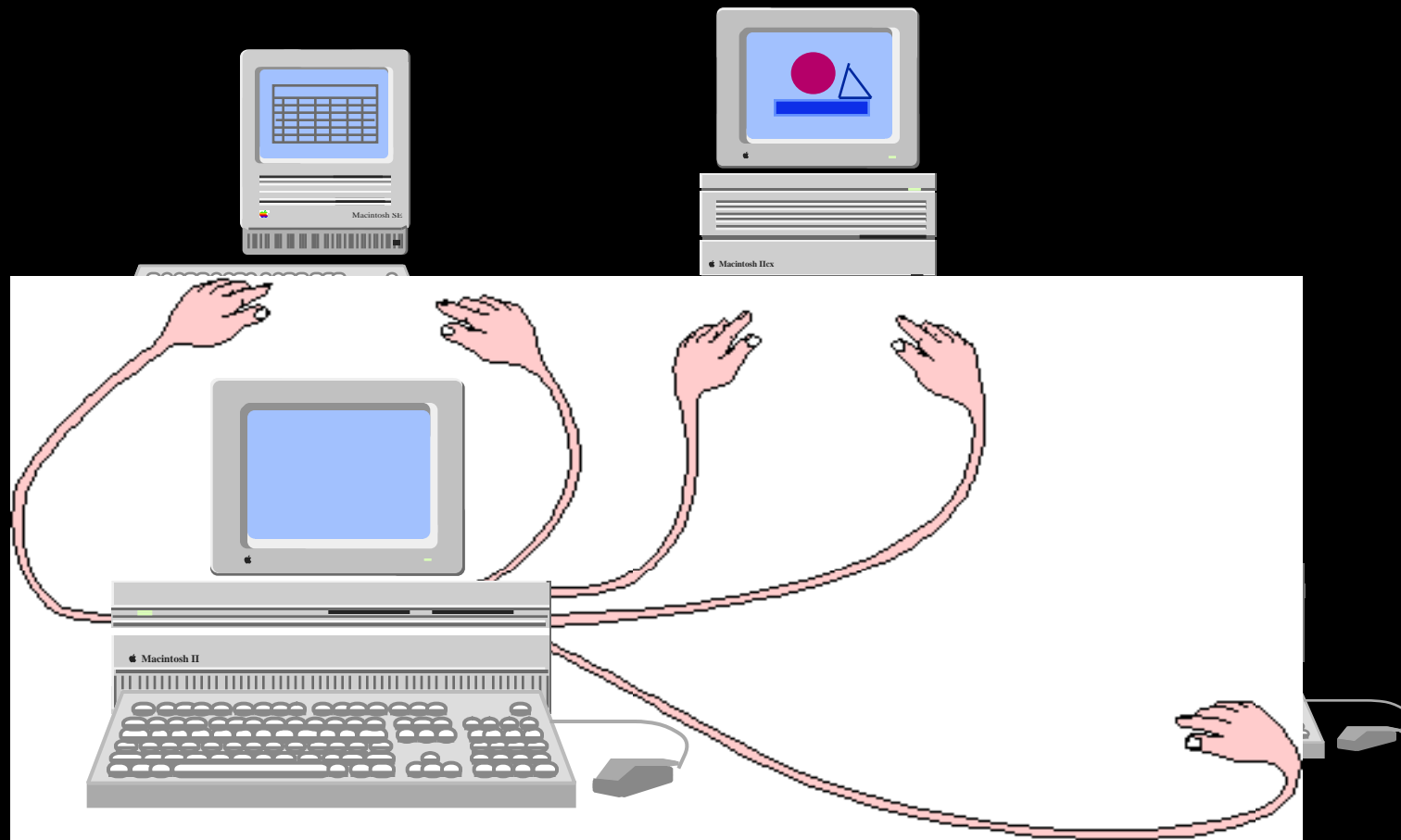Virtual User Lead

Virtual User Engineering

- Jay Jessen   Virtual User
- Nagarajan, P.   Virtual User
- Jim Schneider   Virtual User
- David Shayer   VU/MacApp Support

What is Virtual User?

- Virtual User is a remote user-simulation system for testing Macintosh™ applications
  - Runs over Appletalk™
  - Script-driven

Macs Using Macs

Virtual User Scripting Language

- Supports primitives to do user actions
- Driven by fuzzy matching of intent against reality
- Supports higher level programming constructs

Scalability of Virtual User

- Virtual User can be used for large-scale as well as small-scale testing
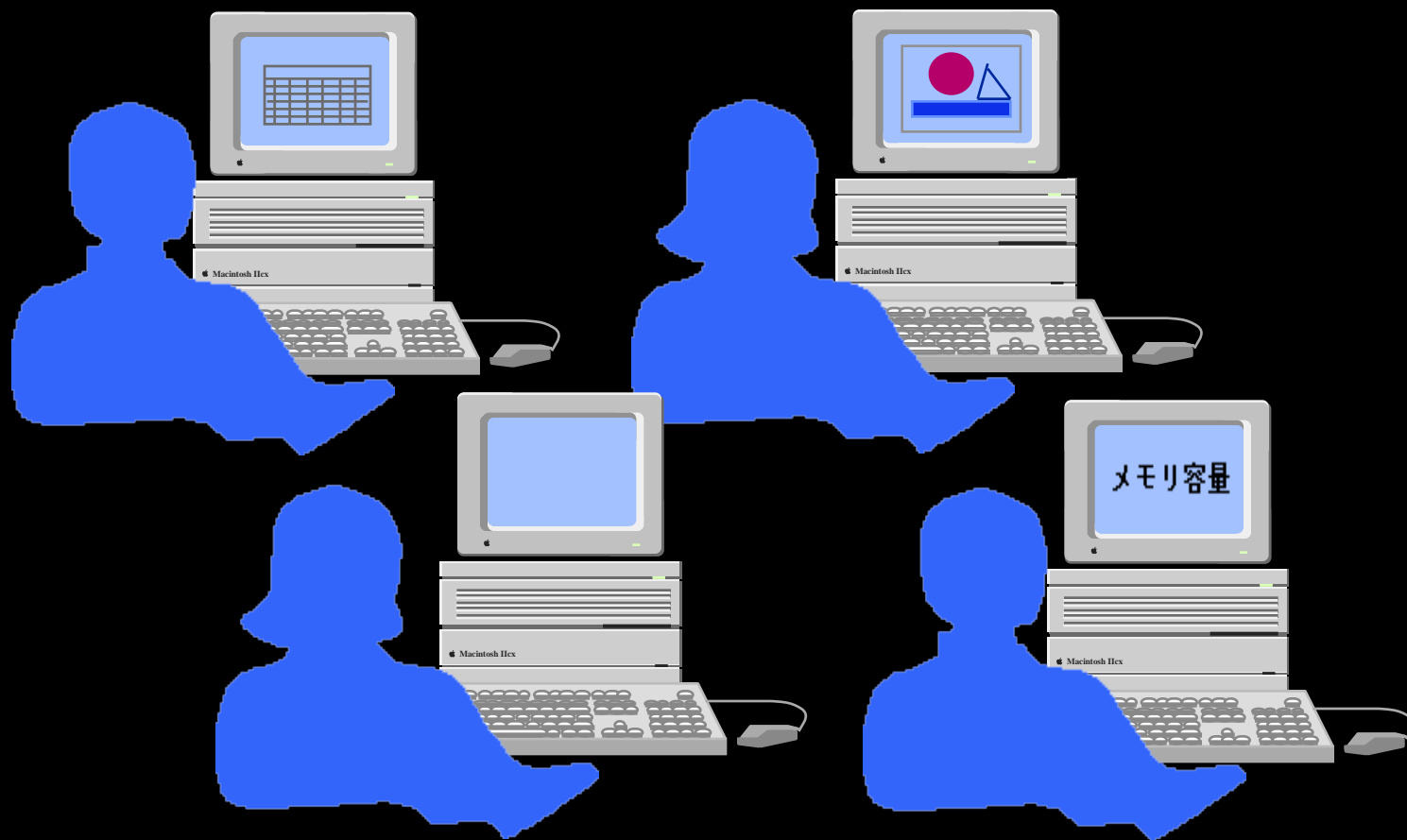- Scripting language is scalable to the expertise of the writer
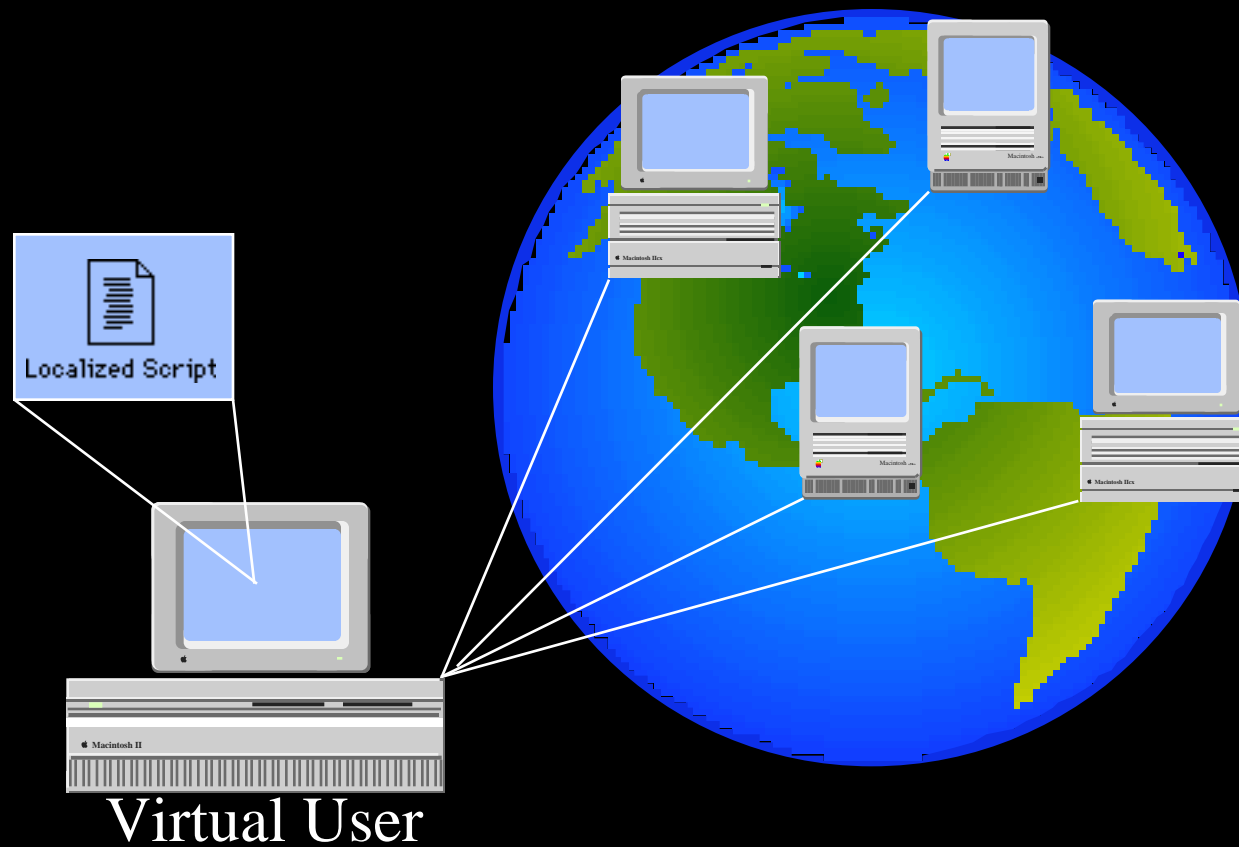
Single Script/Single Target

Single Script/Multiple Targets

Multiple Scripts/Multiple Targets

VU Scripts are Localizable

Localized Script

Virtual User

Reusable Test Scripts

- Early problem detection
- Bug regression
- Stress testing
- Generalized scripts

Idea ⟶ **Final Product**

Obtain System Compatibility

Application

Application

Application

A/UX

6.0

6.02

6.03

6.04

6.05

7.0
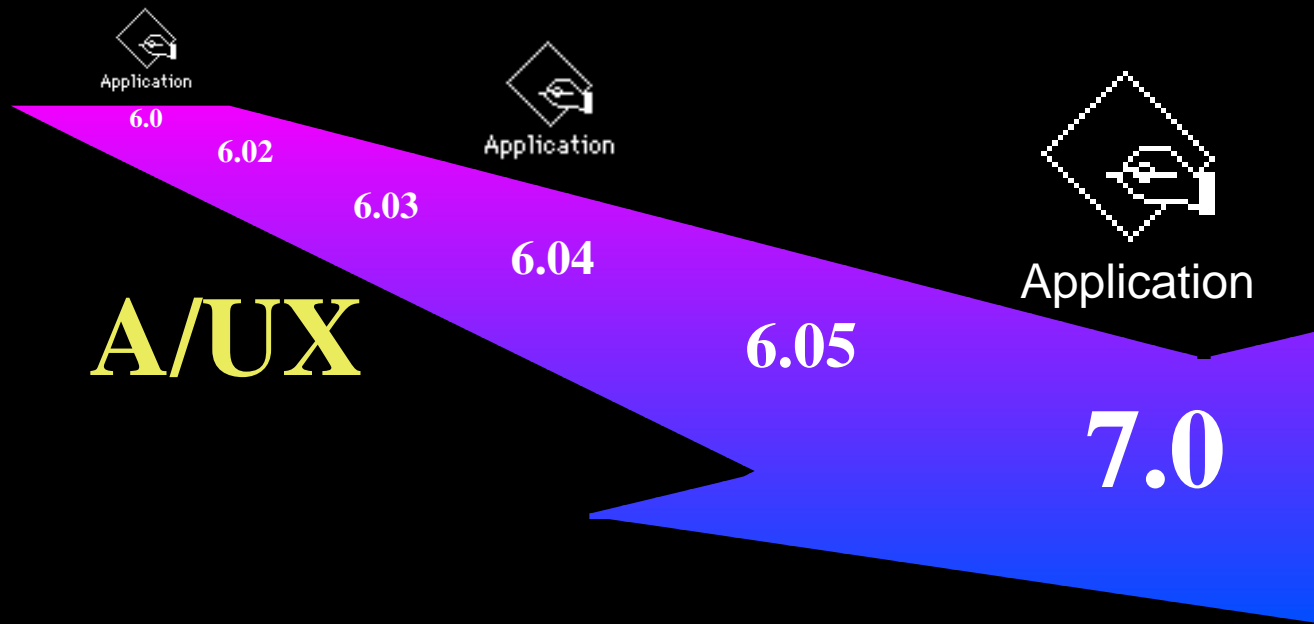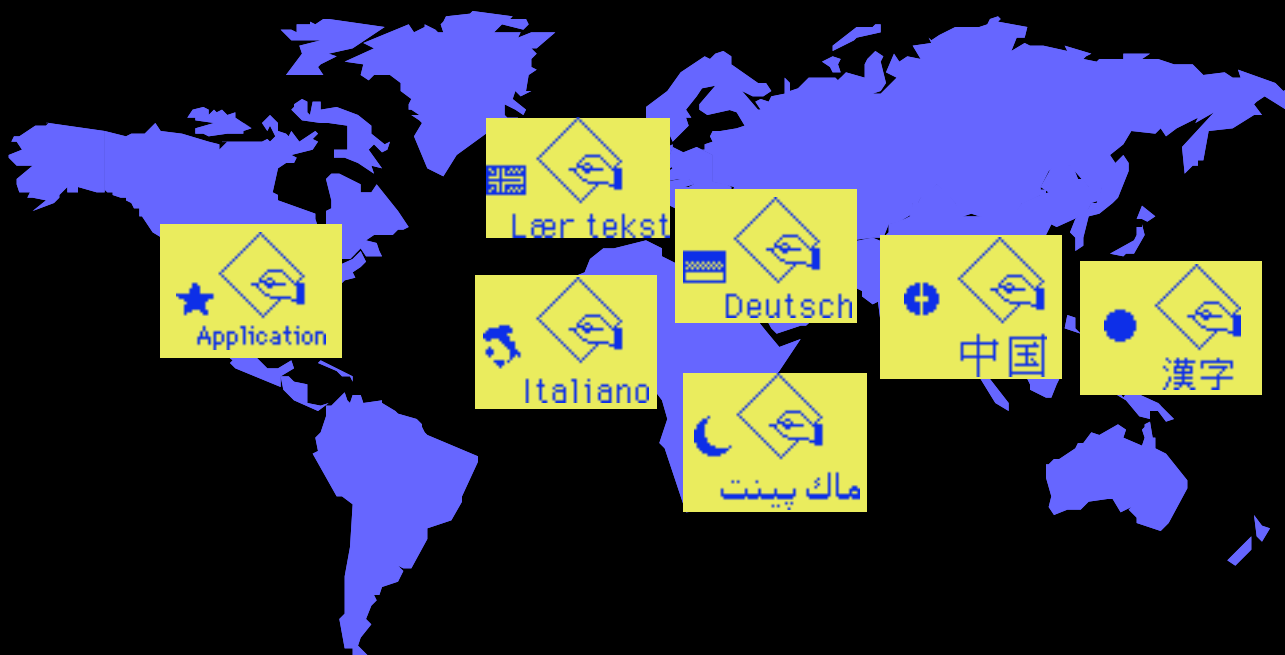
Adapt to Varying
Hardware Configurations
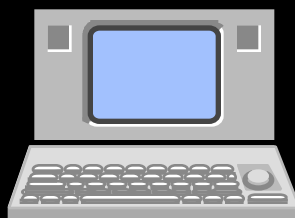
Market Product Globally

Why Use Virtual User?

- Improve Quality
- Reduce time to market
- Cut development costs
- Compete globally

Virtual User:
Questions & Answers

The power to be your best