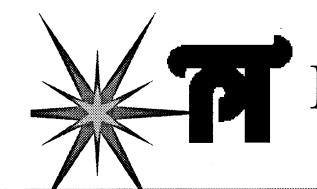
Problems and Issues Writing Rexx Compilers

Markus Pelt-Layman Pelt Industries

Pages 50-66



Pelt Industries



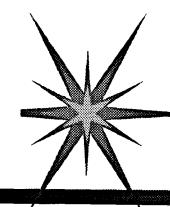
REXXANNE

Problems and Issues writing REXX Compilers





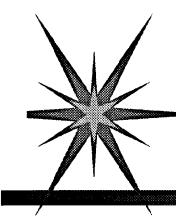
- ➤ 1976 **TEACH** language interpreter (Honeywell)
- ➤ 1979 <u>DPS</u> command language (JES2 look-alike)
- ➤ 1985 <u>Intercept</u> aka <u>AF/Operator</u> command language (TSO CLIST language look-alike for operations automation)
- ➤ 1986 <u>OPS/MVS</u> REXX interpreter contract (ADDRESS ISPEXEC, automation rules, cmd/response API)
- ➤ 1987 Windows Net*Edit and Elan Workstation contracts
- ➤ 1989 OPS/MVS REXX External Product Interface
- ➤ 1992 OS/2 Smalltalk GUI front-end (REXX EHLLAPI)
- ➤ 1994 **REXXANNE** full-time



WHY REXXANNE?

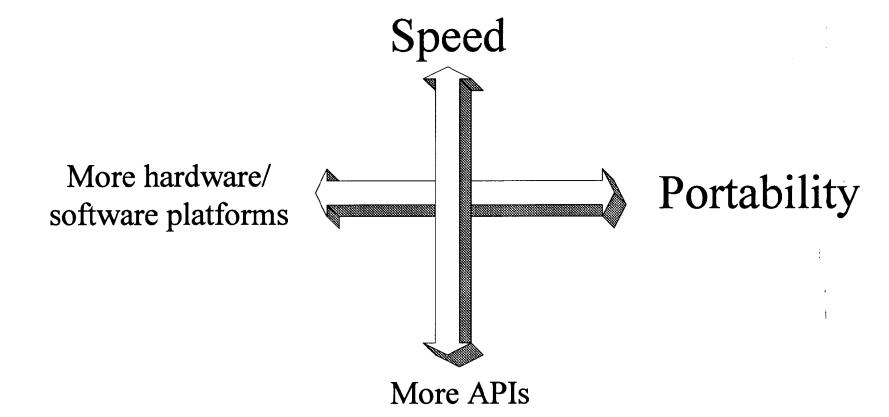


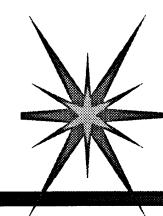
- ➤ I love REXX's simplicity and power
- > Serious development requires a compiler
- ➤ I need
 - **◆Speed**
 - **◆ Portability**
 - ♦ High-level GUI framework



SOFTWARE FORCES







PORTABILITY



- I LANGUAGE DEFINITION
 - TRL/ANSI REXX/Object REXX
- II DEVELOPMENT ENVIRONMENT

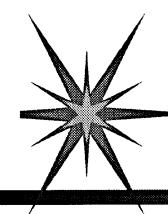
Portable interpreter/compiler, IDE

III RUNTIME ENVIRONMENT

Portable run-time lib (built-in functions)
Portable ADDRESS environments (cmd/response)

IV OBJECT CLASS HIERARCHY

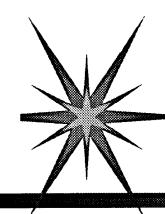
Portable base class library, GUI class library



REXXANNE DESIGN GOALS



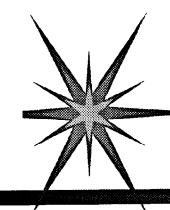
- ➤ Shorten development through portability (no new learning on new platform)
 - ◆ Cross-platform compiler
 - ◆ Cross-platform IDE
 - ◆ Cross-platform run-time library
 - ◆ Cross-platform base class library
 - ◆ Cross-platform GUI class library
- ➤ Shorten execution time through compilation and optimization



REXXANNE DESIGN ISSUES

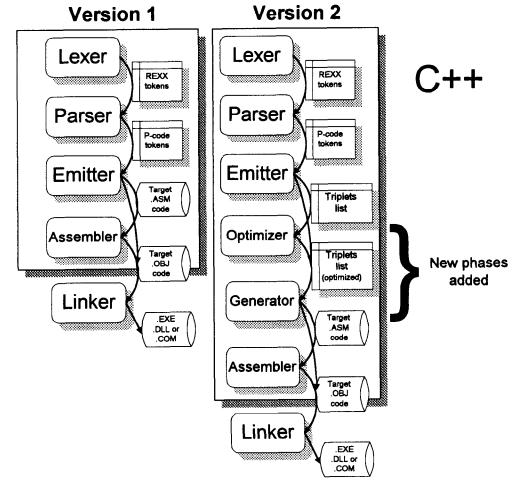


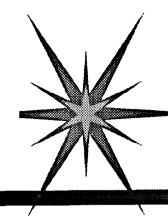
- ➤ Runtime licensing (INTERPRET)
- ➤ Run "interpreted" during development, compiled in production
- ➤ GUI portability versus platforms' native look and features (synthesis problem)



REXXANNE CORE COMPILER

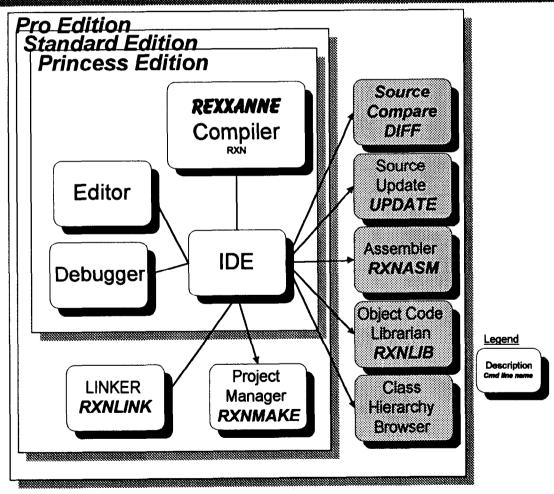


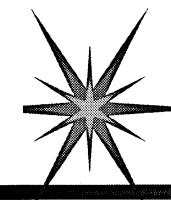




REXXANNE DEVELOPMENT ENVIRONMENT

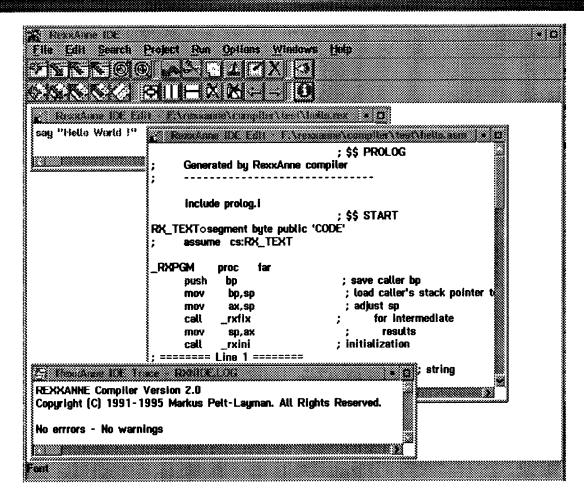


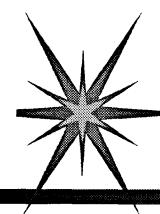




REXXANNE OS/2 IDE

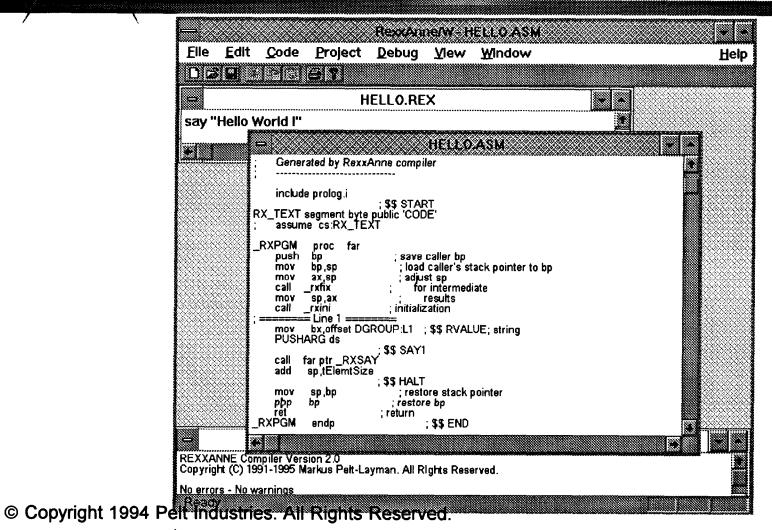


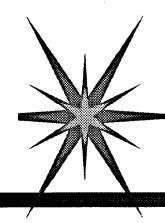




REXXANNE THE



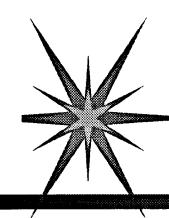




REXXANNE_{TM} CURRENT STATUS



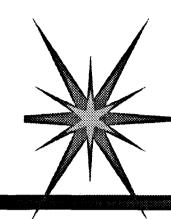
- ➤ We are **WAY** behind schedule
 - ◆ under-staffed
 - ◆ under-capitalized
 - ♦ too ambitious a vision?
- ➤ Lack of user interest/support in REXX



REXXANNE UNDERSTAFFING



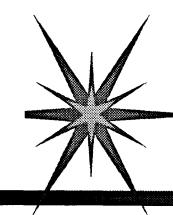
- ➤ Task out work
 - ◆ Lenny Koff online tutorial & doc
 - ◆ John Kastner OS/2 IDE
 - ◆ Billy Jack runtime library
 - ◆ Find Windows/Windows NT/Windows 95 guru
- ➤ Cut down on vision



REXXANNE UNDERCAPITALIZED



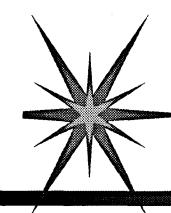
- ➤ Generate revenue
 - ◆ INTER REXX subscriptions
 - ◆ InfoREXX sales
 - ◆ Enterprise REXX sales
 - ◆ Miscellaneous REXX product sales
 - ◆ Beta sales (free upgrade)
- ➤ Look for business partners
- ➤ Look for capital



REXXANNE LACK OF USER INTEREST



- ➤ Generate interest in REXX language
 - ◆ INTER REXX newsletter
 - ◆ Get articles published in other magazines
 - ◆ Prod IBM and others to better marketing
- ➤ Publish information on REXX
 - ◆ InfoREXX multimedia help file
 - ◆ Novice tutorial
- ➤ Generate interest in **REXXANNE**
 - ◆ comp.lang.rexx newsgroup participation
 - ◆ MSJ advertisements



REXXANNE FUTURE



- ➤ Continue REXX evangelism
- ➤ Release "early bird" version (free upgrade)
- ➤ Share development of new features with other vendors (IDE, APIs)
- ➤ Get users involved in development
- ➤ Continue long-term commitment to REXX