# **POPLOG**

## A SELECTION OF APPLICATIONS

## INCLUDING

## CAD/CAM, PROCESS INDUSTRY,

#### **ON-LINE MONITORING, FINANCE,**

#### SOFTWARE ENGINEERING AND

#### **IMAGE PROCESSING**

# **POPLOG Applications**

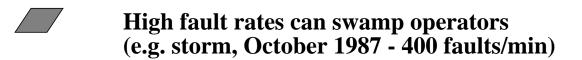
**Avionics simulation** (Avonicom) **Remote sensing / satellite image interpretation** (NERC) Traffic information management (TRRL) Helical spring design (Smiths Industries) **Intelligent program prover** (*Program Validation*) **ICAD/ICAM** (GEC Electrical Projects) System design for testability (RAF) Air traffic control (CAA) Image analysis (BP) **Real-time process monitoring/control (COGSYS)** Currency prediction (*HP/BZW* (/*Logica*)) Image processing tools (*Reading University*)

# <u>FAUST</u>

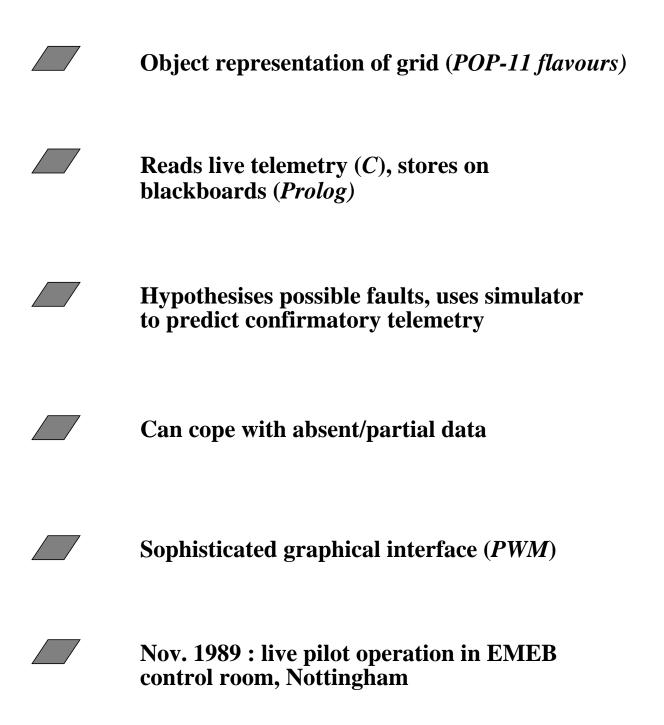
# Real-time fault diagnosis of electricity supply systems

**ECRC / SEB (EMEB) / Thames Polytechnic** 





# FAUST



# <u>JAY</u>







**Data Flow Diagram tool** 



**Entity Relationship tool** 



**Intelligent consistency checking/reporting** 



Currently prototype - expected as product Q3 1990

## **Design to Product**



Alvey large-scale IKBS demonstrator



**Application of AI to all stages of manufacturing process** 



GEC Electrical Projects, Lucas CAV, Loughborough Uni., Edinburgh Uni.



Parts implemented in Prolog, Lisp, POP-11



Data sharing through multi-user object-oriented database ("IMS")

- implemented using KERIS "Rocks"

## <u>RESCU</u>

## microVAX Fox 1/A Plant Plant Plant Plant Plant Plant Plant Plant Plant Plant



## **Real-time Expert Systems Club of Users**



## Live on ICI ethoxylates plant

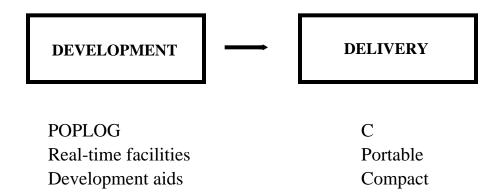
# <u>COGSYS</u>



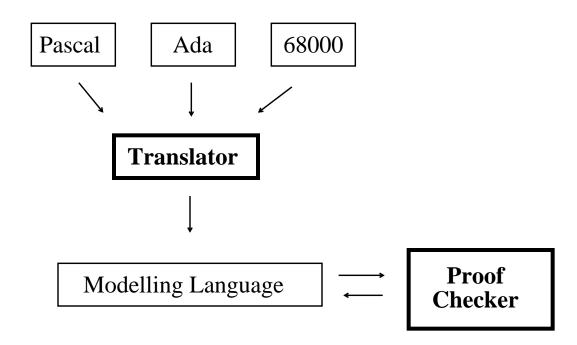
Consortium of leading industrials

First delivery of generic system end '89

Two components:



## Program Checker/Validator Program Validation Ltd.

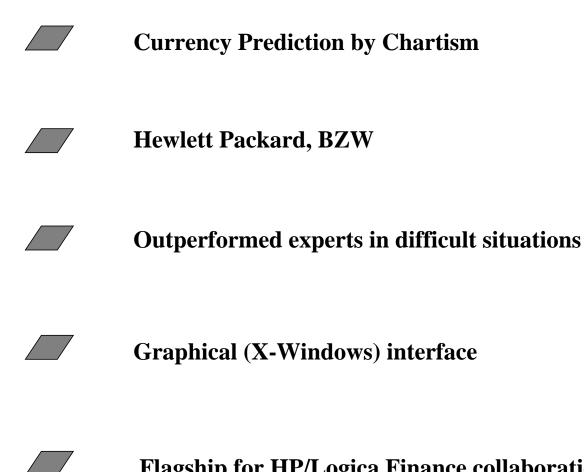


Sold as commercial product

Users include :

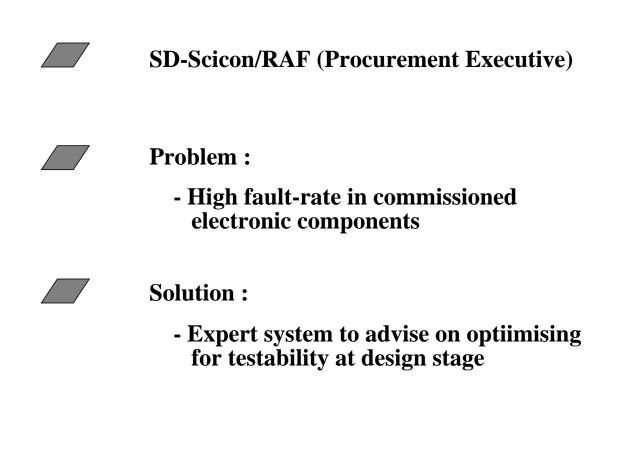
Aquila, Admiral, BAe, GCHQ, GEC Avionics SD, AWRE, Rolls Royce

# <u>EDWIN</u>



Flagship for HP/Logica Finance collaboration

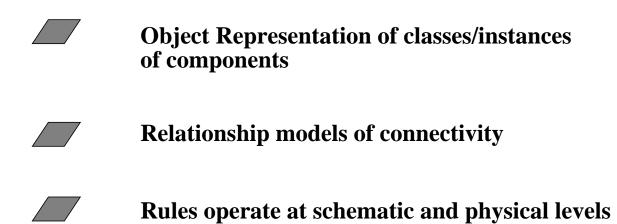
# **Design for Testability**

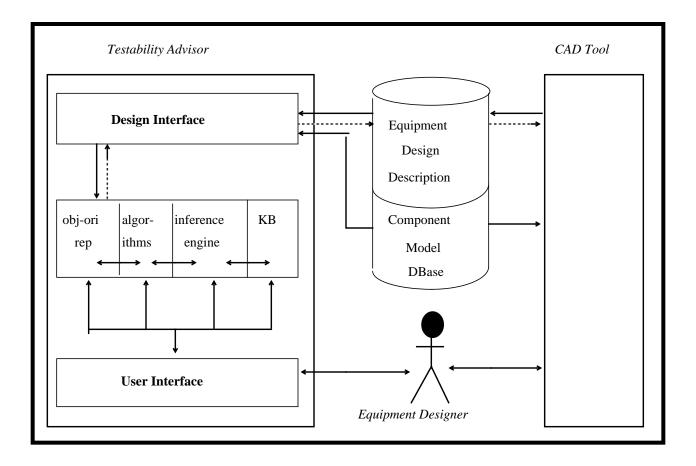




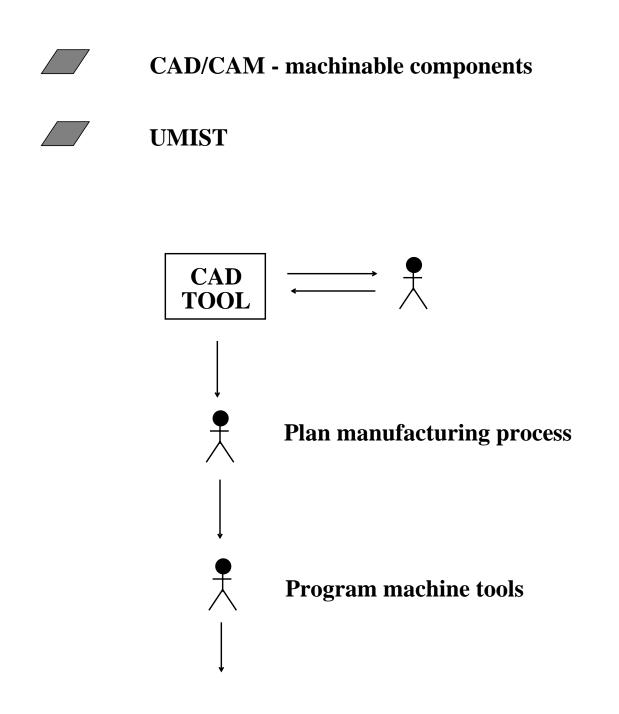
Works in cooperation with CAD tools

# **Design for Testability**



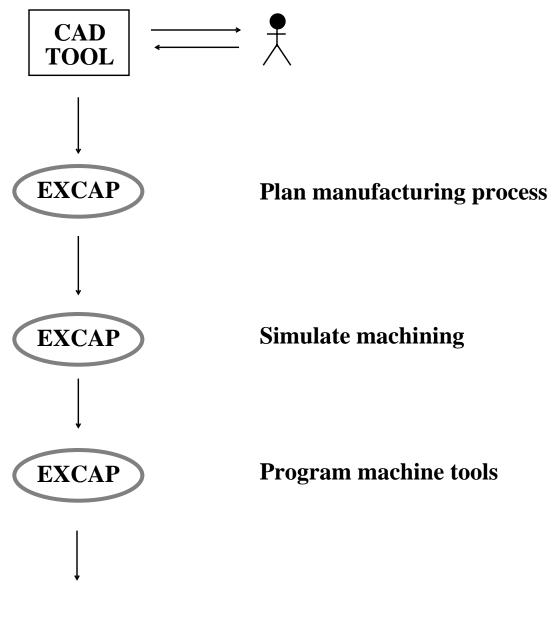


# **EXCAP**



#### MANUFACTURE

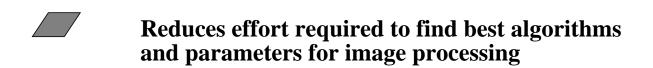
# <u>EXCAP</u>



#### MANUFACTURE

**Interactive Vision Environment (IVE)** 







Allows experimentation on sub-regions of images



**Object-oriented implementation** (*POP-11 Flavours*)



Links to routines in Fortran, C etc.



Sophisticated browsing facilities