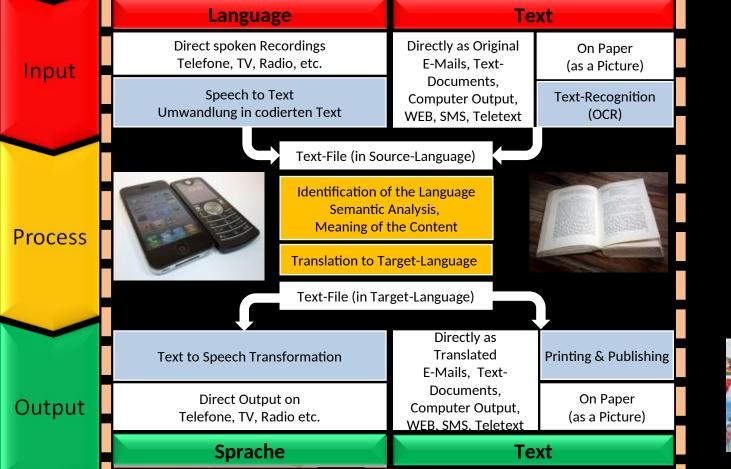
REXXLA 2010 meeting, Dec. 14th, 2010, Almere, The Netherlands

Thomas Schneider (ths@db-123.com)

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LOGOS - The "Missing Link" in automatic Simultane Natural Language Translation





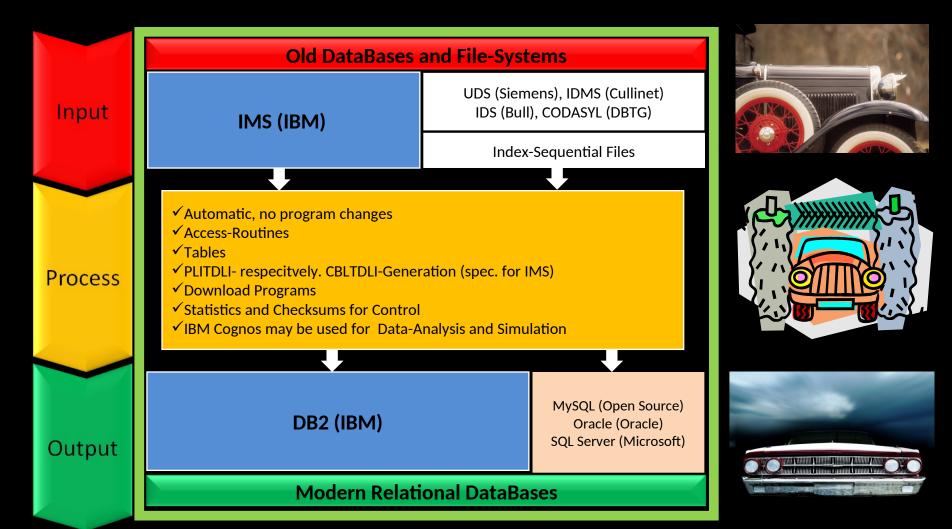




LOGOS - Where to apply

- International Companies, Governments und Organisations
- Private and Business Travellers
- Language oriented Jobs and Lines of Businesses
- All Parties interested in Foreign Language Informations (News, Culture, etc.)

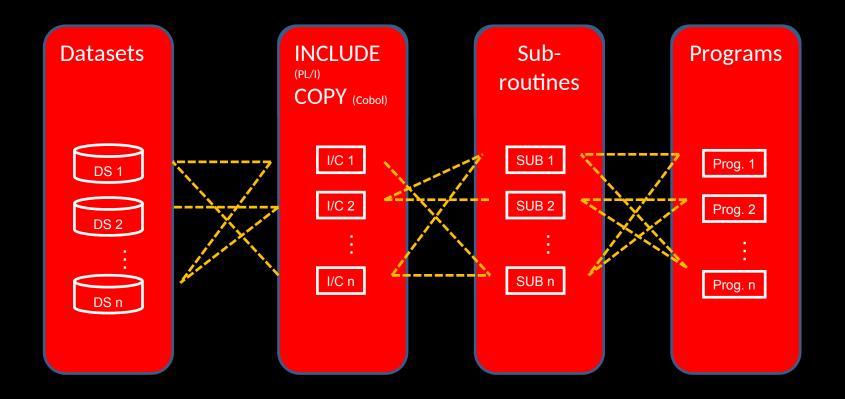
DB-123 - The Database Conversion Machine Secure Investements for Customers and Providers

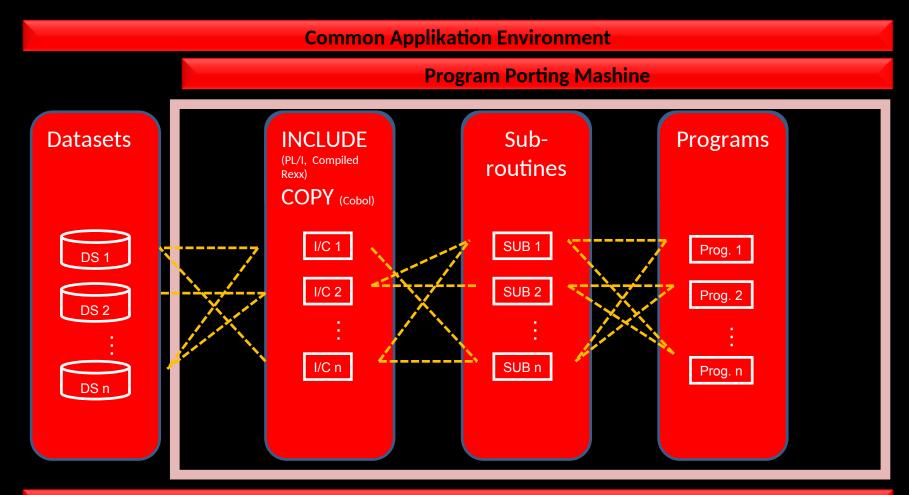


DB-123 - Features

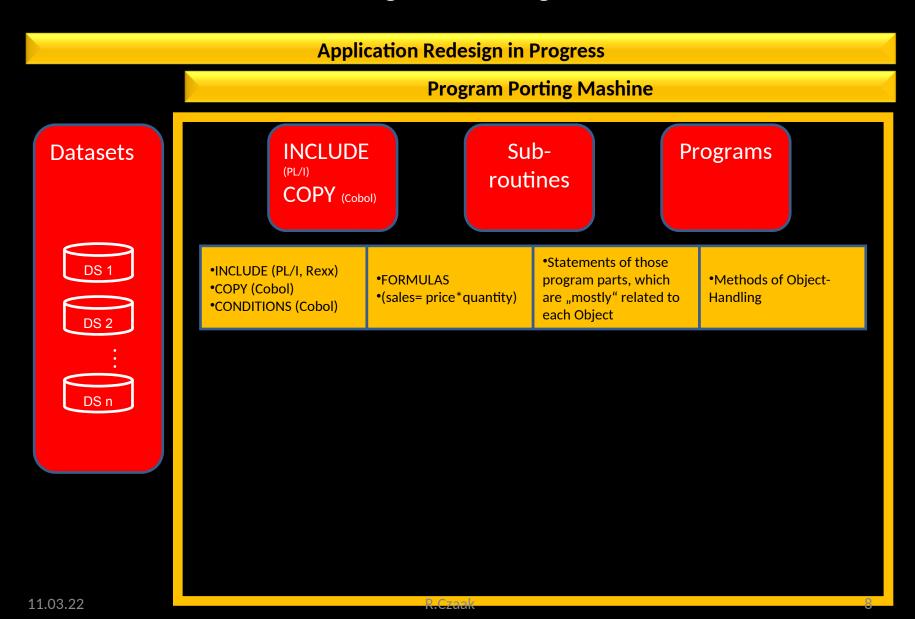
- Automatic, no program changes necessary
- SQL-Tables automatically designed
- Manual Review, Refinement possible
- Generation of ACCESS-Functions
- Download Programs generated
- PLITDLI- bzw. CBLTDLI-generation (IMS!)
- Statistics and Check-Sums for Control
- Enables usage of IBM Cognos

Common Applikation Environment



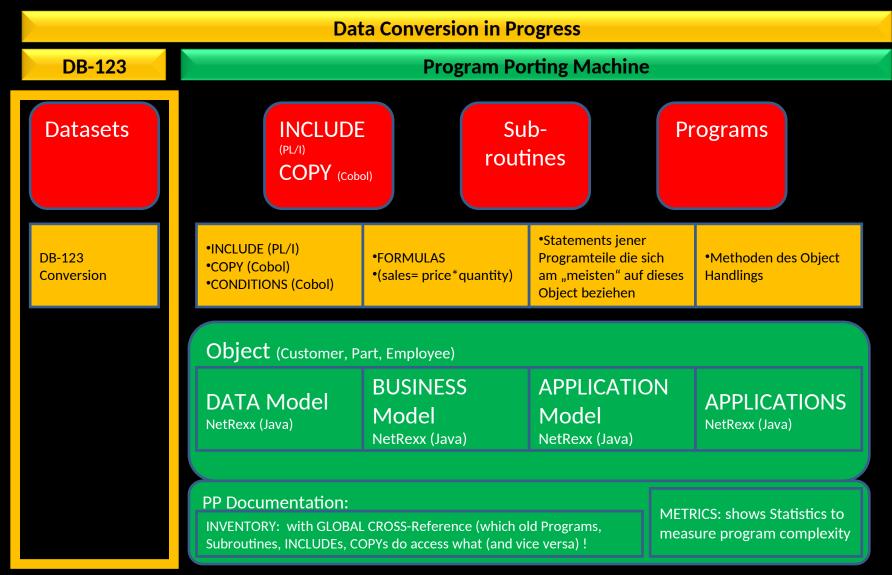


Documentation: INVENTORY, METRICS, Global XREF

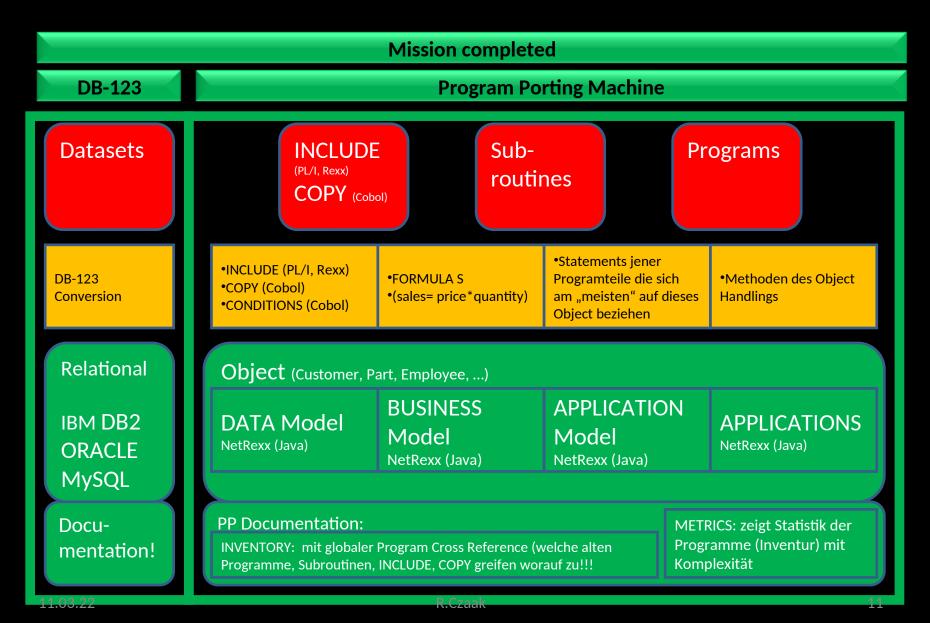


Application Redesign in Progress Program Porting Machine INCLUDE Datasets Sub-**Programs** (PL/I) routines COPY (Cobol) Statements of those •INCLUDE (PL/I) program parts, which Methods of Object •FORMULA S COPY (Cobol) are "mostly" related to (sales= price*quantity) **Handlings** each Object CONDITIONS (Cobol) Object (Customer, Part, Employee) **BUSINESS APPLICATION APPLICATIONS DATA Model** Model Model NetRexx (Java) NetRexx (Java) NetRexx (Java) NetRexx (Java) "Java Beans" PP Documentation: **METRICS:** shows Statistics to measure Program-INVENTORY: with global CROSS-Reference (which old Programs, Subroutines, INCLUDEs, COPYs do access what, and vice versa! Complexity Kein CICS & JCL

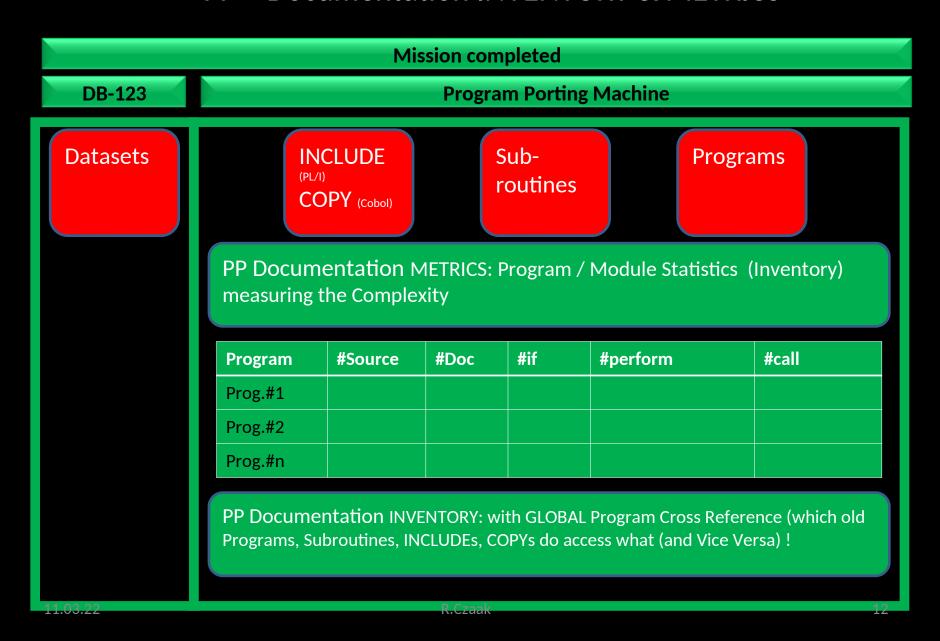
11.03.22



PP & DB-123 - The Application Update



PP - Documentation INVENTORY & METRICS



PP - Features

- Note: Old Processes NOT defined in sourceprograms, but in batch JCL & CICS / IMS/DC!
- JCL: Old Libraries (COBOL, PL/I, Rexx, IMS) are replaced by new Libraries (Java Jar-Files)
- CICS Emulators (e.g. XCICS) do enable WEBaccess to all applications
- Stepwise refinement using the generated Java-Beans possible.

PP - Phases

- Mainframe Applikations are running OO with WEB-access and look&feel like old appl's
- Adaption of Screen-Layout (XCICS)
- Stepwise Conversion of old Business Logic (Batch-Programs) to WEB-enabled ONLINEapplications (-50 thru -60% Development-Time)
- Change of platform requires change of JCL, for instance UC4 (Austrian SW for Job-Scheduling in Realtime-Systems)

Project-Cooperations

IBM ISV (Independent Software Vendor) to be signed start of 2011

PP possibly offered on IBM ERMIS as a Value Added Service

Seeking for Business and/or Implementation Partners worldwide

PP - Documentation

- Can be done as a separate Project, in advance, to estimate complexity & perform a risk analysis!
- Various measures to estimate complexity
- Identification and elimination of DUPLICATE Code

Why NetRexx as TARGET-Language?

- Easy to read sources, human oriented syntax & semantics
- Understandable for PL/I-, Cobol-, Rexx & Java-Programmers
- Ease of Maintenance
- Lesser Code than in Java (-30 bis -50%)
- Decimal Arithmetic with arbitrary presicion (IBM Chip coming along)
- No Longer "Rounding Problems" due to binary arithmetic
- Excellent Handling of Program/User errors possible
- Platform Independent (Just in Time Compiler)
- Optional Generation of IBM's EGL Enterprise-Generation-Language
- Enables Optimal, Flexible "Right Sizing"
- Make existing Application Younger and State of the Art
- Reduce Pressure on Mainframe-Applications and IT-Managers!
- Secure Investments for Customers and Service-Providers

Typical Project

- METRICS & INVENTORY (Whole Application)
- Proof of Concept:
 - 5-10 Main Programs with all SubRoutines, INCLUDES etc.
 - Ca. 6 Weeks Elapsed Time
- Project-Plan
- Offer with Partner (IBM, Oracle, etc)
- Order
- Actual Conversion (in Tranches of max. 3-6 Month's)
- QA-Tests performed by Customer
- Acceptance thru Customer
- Go Live

Further Investigations show

- 60% 70% of existing Code still in Cobol and PL/I (Gartner Group)
- PL/I widely used in DACH (PL/I Labor in Vienna, Austria)
- Old applications with CICS and/or IMS/DC out of date (80*25 char screens)
- Not WEB-fähig
- Difficulty to connect to various NetWorks
- 4 Alternatives für MainFrame Customers:
 - New Developments based on old Design make the problem even bigger
 - Do Nothing forces even more problems in the Future
 - Old Programmers go into Pension
 - No Doc's available for Prozesses, Code-Dependencies, Data-Model, etc
 - Applications not WEB-enabled
 - Too less USER-friendly
 - Too less CUSTOMER-friendly
 - New Developments based on new Technologies (other Platforms, Compatibility, Schnittstellen)
 - New Development from Scratch not feasable (whithout Docu? Budget? Recouserces?)
 - Automatic Port of OLD Applications: Old Programs *DO CONTAIN* the Business Logic as well as the (maybe ancient) Data-Model!

19