DRAFT SF 298

1. Report Date (dd-mm-yy) March 1995	2. Report Type	3. Dates covered (from... to)
4. Title & subtitle Process Technologies Method and Tool Report. Volume 2		5a. Contract or Grant # 5b. Program Element #
6. Author(s) Budlong, F; Ganska, R		5c. Project # 5d. Task # 5e. Work Unit #
7. Performing Organization Name & Address		8. Performing Organization Report #
9. Sponsoring/Monitoring Agency Name & Address Software Technology Support Center OO-ALC/TISE 7278 4th Street Hill AFB, UT 84056-5205		10. Monitor Acronym 11. Monitor Report #

12. Distribution/Availability Statement
Distribution Statement A: Approved for public release, distribution is unlimited.

13. Supplementary Notes

14. Abstract

19970516 145

DTIC QUALITY INSPECTED 4

15. Subject Terms

Security Classification of			19. Limitation of Abstract	20. # of Pages	21. Responsible Person (Name and Telephone #)
16. Report Unclass	17. Abstract Unclass	18. This Page Unclass			Randy Wright (801) 777-9732

STSC

Process Technologies Method and Tool Report (Volume II)

March 1995

Faye Budlong
Ralph Ganska

Process Technology Evaluation Project
Robert Hanrahan
Technical Program Manager

19970516 145

This technical report was prepared by the

Software Technology Support Center
Ogden ALC/TISE
Hill AFB, UT 84056

The ideas and findings in this report should not be construed as an official Air Force position. It is published in the interest of scientific and technical information exchange.

This document is available through the STSC. To obtain a copy, please contact the STSC Customer Service Office directly at: Software Technology Support Center, Attn.: Customer Service, Hill AFB, Utah 84056; 801-777-7703 or DSN 777-7703, FAX 801-777-8069, e-mail process@software.hill.af.mil.

Preface

This document, Volume II of the Process Technologies Method and Tool Report, provides a detailed review of process products and IDEF training information. For more information on the topics in this report, to order copies of Volume I, or to order future copies of Volume II, please contact the STSC customer service department at 801-777-7703 or DSN 777-7703, FAX to 801-777-8069 or DSN 777-8069, or email to process@software.hill.af.mil.

Volume I of the Process Technologies Method and Tool Report, is a synopsis of the progress of the Software Technology Support Center (STSC) in evaluating process technologies. Areas covered in the report include process assessment, process modeling, and process enactment, where process enactment is defined as the use of a formal process definition to guide and control the software process. Both process methods and computer aided process engineering tools are included. The report defines process technologies, identifies tools and software engineering environments that support process technologies, discusses the value of emphasizing process in improving software quality, and examines the effective use of process technologies. The report also attempts to identify the future directions of process technologies to help in planning long-range strategies.

The targets of Volume II of this report are process technologists who have a need for detailed technology-specific information and already have a good understanding of process concepts, terminology, and trends. The information is aimed at those who must make the decisions about acquiring process technology and prepare their organizations for its effective use.

Volume II of the Process Technologies Method and Tool report was created because the initial report was too large to fit into one volume. The two volumes were quickly created for a release at the Software Technology Conference. As a result this volume contains only selected information. Our next rewrite will improve the organization of the report.

Although the material presented in this publication has been reviewed for technical accuracy, no guarantees are made or implied. In particular, though the authors have

attempted to incorporate reviewer revisions and suggestions wherever possible, this does not imply that the reviewers concur with the technical accuracy of the report. In addition, product specifications are subject to change by the vendor without notice. Therefore readers should always verify information independently and evaluate it in relationship to their needs.

Contents

Volume II Information 1

Appendix B - Process Technology Product Sheets 3

Appendix C - Process Technology Product Critiques 47

Appendix E - IDEF Training Sheets 51

(This page is intentionally left blank)

1 Volume II Information

Volume II of the Process Technologies Method and Tool Report contains detailed information on process products and IDEF training information. This volume was intended for process technologists who already have an understanding of basic process concepts, terminology, and trends. We feel that readers with this type of need would most likely be product and service vendors, as well as those in the community tasked with researching, buying, or utilizing process products and services.

With new and improved technologies emerging every day, it is a challenge to keep on top of all aspects within the process domain. We encourage readers and vendors to inform us of any modifications/discrepancies found in this report by contacting the STSC.

The mission of the Software Technology Support Center (STSC) is to assist Air Force Software Organizations to identify, evaluate, and adopt technologies that will improve; the quality of their software products, their efficiency in producing them, and their ability to accurately predict the cost and schedule of their delivery. For this reason, we urge those readers with questions, concerns, and/or a need for assistance with process efforts to contact the STSC customer service department at 801-777-7703 or DSN 777-7703, FAX to 801-777-8069 or DSN 777-8069, or email to process@software.hill.af.mil.

(This page is intentionally left blank)

Appendix B - Process Technology Product Sheets

This appendix contains a product list and product information sheets for technologies and tools. The product list provides a quick reference for known tools. The list contains vendor information, points of contact, phone numbers, electronic bulletin board service phone number, email address (if possible) and a comment. If the App B column of a product is checked then this report contains a product information sheet. Users of these reports should be able to make preliminary tool assessments based on the provided information. Information on pricing, contact, support, process technology areas covered, intended users of the technology or tool, intended application area, primary methodology base, hardware platforms, and general tool capabilities is included. The information in the reports was obtained directly from the vendors.

There are tools in the product list for which there is no associated product information sheet. This condition occurs because there was insufficient available information to create the product information sheet, either because the vendor did not supply information in time for publication or because the tool was added to the tool list too late for the creation of a product information sheet.

The STSC can be contacted for both unpublished and updated reports that may be available.

TOOL TECHNOLOGY	DEVELOPER	POINT OF CONTACT	APPB	COMMENTS
ABLE Concensus	TRIUNE Software, Inc. 2900 Presidential Dr. Suite 240 Fairborn, OH 45324	Alan Dennis TEL: 513-613-5348 FAX: 513-427-9964 adennis@uga.cc.nag.edu	√	Groupware based process modeling tool.
ABLE PM	TRIUNE Software, Inc. 2900 Presidential Dr. Suite 240 Fairborn, OH 45324	Doug Bernard TEL: 513-427-9900 FAX: 513-427-9964	√	Used to be AutoSADT
Ada Process Programming Language based on Aspen (APPL/A)	University of Massachusetts Amherst, MA	Stanley M. Sutton, Jr. TEL: 413-545-0609 FAX: 413-545-1249 sutton@cs.umass.edu		Ada superset providing machine-executable support (developed as part of the DARPA Arcadia project).

AGE/ASA	Verilog, Inc. 3010 LBJ Freeway Suite 900 Dallas, TX 75234	Andy Gordon TEL:214-241-6595 FAX:214-241-6594 sales@logtech.com	√	Requirements and testing workbench based on SADT/IDEF0.
AI0 WIN	Knowledge Based Systems 1500 University Dr. East College Station, TX 77840-2335	Marketing Dept. TEL: 409-260-5274 FAX: 409-260-1965 BBS: 409-260-4606 products@kbsi.com	√	DEF0 package for PC. (Issue of simulating their IDEF0 models being worked.)
Apt	Computer Science Department University of Colorado Boulder, CO 80309-0430 Part of Arcadia project	Dennis Heimbigner TEL: 303-492-6643 FAX: 303-492-2844		Apt translates programs written in a subset of the AAPL/A process programming language into an equivalent Ada program that may be compiled and executed. (APPL/A is a process programming language used in some process-driven environments.)
Articulator Environment	USC System Factory Project Information and Management Dept. USC Los Angeles, CA 90089-1421	Dr. Walt Scacchi TEL: 213-740-4782 FAX:213-740-8494 scacchi@gilligan.usc.edu	√	Used to be System Factory Project
Authormate	Eclectic Solutions Corporation POC: C.A. (Al) Irvine 764th Fifth Ave, Suite B San Diego, CA 92101-6918	TEL: 619-696-7529 FAX: 619-558-7928	√	Used to be called "COINS." This is a complete modeler's workstation environment.
CAIS-A	SofTech, Inc. 10875 Rancho Bernardo Rd Suite 100 San Diego, CA 92127	Gary Pritchett TEL: 619-451-9318 FAX: 619-451-9327 garyp@nosc.mil	√	Does not provide for process modeling; however, it provides lower-level capabilities upon which one may build those capabilities. Was controlled by AJPO
CASE* Method	Oracle Corp. 500 Oracle Parkway Suite 4 Redwood Shores, CA 94065	TEL: 800-633-0596 FAX: 415-506-7200		Support for process management in a single vendor toolkit - not tailorable wrt methodology.
Continuus CM & PT	Continuus Software 108 Pacifica Irvine, CA 92718	Dina Hannum TEL: 714-453-2200 FAX: 714-453-2276 Info@continuus.com	√	Company used to be CaseWare
Design/CPN	Meta Software Corp. 125 Cambridge Park Dr. Cambridge, MA 02140	Lou Zand TEL: 617-876-9725 FAX: 617-661-2008 seltzer@metasoft.com	√	Tool that can be used to support process definition using the formal principles of hierarchical colored Petri nets.

Design/IDEF	Meta Software Corp. 125 Cambridge Park Dr. Cambridge, MA 02140	Patty Kostusiak TEL: 617-576-6920 FAX: 617-661-2008 patty@metasoft.com	√	Tool can be used to support process definition using IDEF graphical notation. Design/CPN can then be used for simulation if that is desired. (A MetaSoftware tool exists for translating IDEF diagrams to Petri Net format.)
EasyCASE Professional	Evergreen CASE Tools 8522 154th Avenue, NW Redmond, WA 98052	Brian Hansford TEL: 206-881-5149 FAX: 206-883-7676	√	Process Modeling supporting graphical editing, with an underlying data dictionary and report generation
ESPRIT Portable Common Tool Environment * (PCTE)	W. Wohlschlegel, CEC 25 rue Archimede 1040 Brussels, Belgium	32-2-236-0257 suppliers: Bull Louvveciennes, France Software Sciences London, England		Repository interface specification standard; does not provide explicitly for process modeling services; however, it provides lower-level capabilities upon which one may build those capabilities.
FastPACE	James Martin & Company Reston, VA	TEL: 312-693-5040 FAX: 312-693-3112		Tailored for the Information Engineering method as implemented under KnowledgeWare's ADW; integrated with other JMC tools.
firstcase	AGS Management Systems 1012 W. Ninth Avenue King of Prussia, PA 19406	Valerie Palamountain TEL: 610-265-1550 FAX: 610-265-1230	√	Process management for component CASE; interfaces to several major CASE tools and unifies the mgmt of tools, techniques, policies and procedures.
FirstEP	International Software Systems, Inc. 9430 Research Blvd. Bldg. IV-250 Austin, TX 78759	Stephanie Yeh TEL: 512-338-4774 FAX: 512- 338-4704 syeh@issi.com		An enterprise and process description method. Enterprise modeling includes process modeling, infrastructure modeling, and information modeling. Used in the Pro-SLCSE environment.
Formal Software Process Notation (FSPN)	Software Productivity Consortium SPC Building 2214 Rock Hill Road Herndon, VA 22070-9858			Notation designed to map to a software development environment to permit process management.
I-CASE OMT	Westmount USA, Inc. 111 Anza Blvd. Suite 300 Burlingame, CA 94010	Stephen Boskin TEL: 415-348-4853 FAX: 415-348-6821 stbo@west.nl	√	Tool for developers to meet goals set by Object-Oriented Modeling Techniques.
I-CASE Yourdon	Westmount USA, Inc. 111 Anza Blvd. Suite 300 Burlingame, CA 94010	Stephen Boskin TEL: 415-348-4853 FAX: 415-348-6821 stbo@west.nl	√	Supports full development life cycle of business information system

* The project's goal was to provide a common interface for the Esprit program and define a complete set of framework services to support tool development. The PCTE interfaces were submitted for ISO standardization in 1990.

IDEF/ LEVERAGE	D. Appleton 1334 Park View Ave Suite 220 Manhattan Beach, CA 90266	TEL: 310-546-7575		Personal IDEF/ LEVERAGE is a PC based IDEF0 modeling package. Regular IDEF/ LEVERAGE on large host mainframe can read these models via a standard modeling language (SML, AML) for reporting, analysis, merging, etc.
IDEFine	Wizdom Systems Inc 1300 Iroquois Avenue Naperville, IL 60563	Don Sloan TEL: 708-357-3000 FAX: 708-357-3059		PC-based IDEF0 and IDEF1X process definition tools; exports in format readable by CACI's SIMprocess for simulation.
Integrated Knowledge Environment (IKE)	Knowledge Base Engineering 71 Rhoads Center Drive Centerville, OH 45458	Sam or Greg Nusinou TEL: 513-434-1716 FAX: 513-434-4246	√	Advanced authoring capabilities. Multi-media.
Integrated Model Development Environment (IMDE)	TASC 2555 University Blvd. Fairborn, OH 45324	Patrick Clarktel. TEL: 513-426-1040 fax. 513-426-8888		Supports graphical, object-oriented construction of simulation models.
Integration Softboard	Atherton Technology 1333 Bordeaux Drive Sunnyvale, CA 94089	Denise Boucher 408-734-9822		Allows the behavior of any software engineering process written in any programming language to be used by the Atherton Backplane to enable the automation of development rules.
ISPW	Benchmark Technologies Suite 300, 839 5th Ave. SW Calgary, Alberta Canada T2P 3C8	Christina McGill TEL: 403-269-7499 FAX: 403-265-2379	√	Can integrate a variety of CASE tools to help manage the development process.
KI-Shell (Knowledge-based Integration Shell)	UES, Inc. 5162 Blazer Memorial Pkwy Dublin, Ohio 43017-1339	Charles R. Ditchendorf TEL: 614-793-2562 FAX: 614-792-0998 chuck@columbus.ues.com	√	Advertised as "The best off-the shelf object-oriented product for process modeling and enactment."
METHOD/1	Andersen Consulting 69 West Washington St. Chicago, IL 60602	TEL: 312-580-0069 FAX: 312-507-2548		Provides an automated system for work planning and project control based on Andersen's proprietary information planning development process. One of 5 major modules in Andersen's life-cycle application development environment, Foundation.
MethodMaker	Mark V Systems 16400 Ventura Blvd. #303 Encino, CA 91436	TEL: 818-995-7671 FAX: 818-995-4267 info@markv.com	√	Supports graphical modeling of a process notation.
MicroWorld Creator	MicroWorlds, Inc. 47 Third Street, Suite 200 Cambridge, MA 02141	Elizabeth Peterson TEL: 617-225-0025 FAX: 617-225-0028 mworlds@aol.com	√	Tools takes as input a description of a system expressed graphically.
MVP-L	The Multi-View Modeling Project (MVP) University of Maryland College Park, MD 20742	Christopher M. Lott cml@cs.umd.edu		Rule-based textual process representation language.

Object Modeling Workbench (OMW)	James Martin and Co. Rosemont, IL and Intellicorp Mountain View, CA	TEL: 415-965-5634		Supports execution of process models defined through the semi-formal graphical notation espoused by Martin and Odell; aimed for the business market.
ObjectMaker	Mark V Systems 16400 Ventura Blvd. #303 Encino, CA 91436	TEL: 818-995-7671 FAX: 818-995-4267 info@markv.com	√	ObjectMaker is a software development workbench using a variety of methods and supporting analysis, design, code generation, and reverse engineering. Model attributes stored in a common repository, and can be viewed using different notations.
Objectory	Objectory Corporation 300 Atlantic Street Suite 111 Stamford, CT 06901	Lucia Jansen TEL: 203-363-7555 FAX: 203-363-7556	√	Full life cycle covering process for OO business modeling and OO system development. Scalable to large projects.
PACE	Grossenbacher Elektronik AG Spinnereistrasse 8 9008 St. Gallen Switzerland	Robert Schopflin TEL: 011 42 72 26 31 51 FAX: 011 41 71 24 04 06		Graphical interactive tool based on high level Petri Nets, combined with object oriented data modeling.
PLAN/1	Andersen Consulting 69 West Washington St. Chicago, IL 60602	TEL: 312-580-0069 FAX: 312-507-2548		functional modeling using diagrams with SADT-type syntax; in addition a data modeling editor for E-R diagrams and data modeling. One of 5 major modules in Andersen's life-cycle application development environment, Foundation.
PowerSIM	MicroWorlds, Inc. 47 Third Street #200 Cambridge, MA 02141	Elizabeth Peterson TEL:617-225-0025 FAX:617-225-0028 mworld@aol.com	√	Supports Systems Dynamics Method.
ProCAP	Knowledge Based Systems Inc 1500 University Dr. East College Station, TX 77840-2335	Marketing Dept. TEL: 409-260-5274 FAX:409-260-1965 BBS:409-260-4606 products@kbsi.com		Used for process capture and analysis and allows users to associate objects and constraints wiht processes.
Process Modeling Language (PML)	Praxis Systems PLC 20 Manvers Street Bath BA1 1PX England	Clive Roberts		Object-Oriented Conceptual Modeling Language: - undertaken as part of IPSE 2.5 project.
Process Weaver	CAP Gemini America 8391 Old Courthouse Rd. Vienna, VA 22182	Vincent Jorrano TEL: 800-400-1511 FAX: 703-790-5824 weaver@access.digex.net	√	It's a framework in which process enactment models can be implemented.
ProcessMaker	Mark V Systems 16400 Ventura Blvd. #303 Encino, CA 91436	Marketing Dept. TEL: 818-995-7671 FAX: 818-995-4267 info@markv.com	√	Supports more than 15 notations and techniques.

ProcessWall	CS Dept University of Colorado Boulder, CO 80309-0430	Dennis Heimbigner TEL:303-492-6643 FAX: 303-492-2844 dennis@cs.colorado.edu	√	Supports Process State Server.
Professional DYNAMO	Pugh Roberts Associates, Inc. 41 William Linskey Way Cambridge, MA 02142	Simone O'Donoghue TEL: 617-864-8880 FAX: 617-864-8884 70662.3552@compuserve.com	√	System Dynamics approach.
Programmer Command Center	Compuware Corporation 31440 Northwestern Highway Farmington Hills, MI 48018	TEL:313-737-7300		Process control product for mainframes.
ProSIM	Knowledge Based Systems, Inc. 1500 University Drive East College Station, TX 77840-2335	Marketing Dept. TEL:409-260-5274 FAX: 409-260-1965 products@kbsi.com	√	Generates simulation models. Complete process capture.
ProSLCSE	International Software Systems, Inc. 9430 Research Blvd. Bldg. IV-250 Austin, TX 78759	Stephanie Yeh TEL: 512-338-4774 FAX: 512- 338-4704 syeh@issi.com	√	Part of a suite of tools which include ProBuilder, ProSimulator, etc.
ProTEM	SCIL 13812 SE 240th Kent, WA 98042	TEL: 206-631-4212		Petri net-based modeling tool.
Prototype Engineering Information System (PREIS)	Honeywell Systems and Research Center 3660 Technology Dr. Minneapolis, MN 55418	John Kimball		PREIS employs an object-oriented engineering approach which features a control points and policies mechanism for automating administrative actions.
RDD-100 (Requirements Driven Development)	Ascent Logic Corporation 180 Rose Orchard Way Suite 200 San Jose, CA 95134	TEL: 408-943-0630 FAX: 408-943-0705		The RDD language and notation (Behavior Diagram notation) combines data, control and functions in one graphical display.
S**4	MicroWorlds, Inc. 47 Third Street #200 Cambridge, MA 02141	Elizabeth Peterson TEL: 617-225-0025 FAX: 617-225-0028 mworlds@aol.com	√	Interactive Modeling. Uses STELLA and MicroWorlds simulation lanaguage.
SIMprocess	CACI 1100 North Glebe Road Arlington, VA 22201	Ron Flauaus TEL: 703-841-4430		Simulates imported Wizdom Systems IDEF0 models. Can also simulate their own NON-IDEF models.

Software Process Management System (SPMS)	SAIC STC Cielo Center One, Suite 380 1250 Capital of Texas Hwy. S. Austin, TX 78746	Jim Terrel Adam Linehan		Employs reuse-based mechanisms for developing project-specific software processes. Still in R&D stage. A fully functional SPMS will eventually be embedded in a process-centered STARS* SEE in the 1993-1996 time period.
Software through Pictures (StP)	Interactive Development Environments 595 Market Street, 10th Floor San Francisco, CA 94105	TEL: 415-543-0900 FAX: 415-543-0145		Upper CASE tool that supports structured and object-oriented process definition development
Statemate	I-Logix, Inc. Three Riverside Drive Andover Research Park Andover, MA 01810	Thomas M. McLaughlin TEL:408-562-6146 FAX:408-562-6175 tom@ilogix.com	√	Systems engineering tool which can be used to define and simulate a process definition.
STELLA II (and a similar product by High Performance Systems: IThink)	High Performance Systems, Inc. 45 Lyme Road Hanover, NH 03755	TEL:603-643-9636 FAX:603-643-9502		System Dynamics approach.
SYNERGY	CASE Methods Development Corp. 100 N. Central Expressway Suite 710 Richardson, TX 75080	TEL:214-437-9700 FAX:214-644-8175	√	Provides a fully integrated Process Management Environment
SynerVision	Hewlett-Packard Software Engineering Sys Div. 3403 /e. Harmony Rd. Ft. Collins, CO 80525-9599	TEL: 303-229-3800		Process engine that can be used to provide process automation, definition, guidance and metrics in a SoftBench process environment.
System Architect	Popkin Software & Systems, Inc. 11 Park Place New York, NY 10007	TEL:212-571-3434		Supports a variety of methodologies, OOD, structure charts, state transition, decomposition, entity-relationship diagrams, flow charts.
Teamwork	Cadre Technologies, Inc. 222 Richmond Street Providence, RI 02903	Barry Ackerman TEL: 401-351-5950 FAX: 401-351-7380		Upper CASE tool which can be and has been used for process definition

* The Software Technology for Adaptable, Reliable Systems (STARS) Program is sponsored by ARPA, contracted through Air Force Electronic System Division, and involves three cooperating Primes - Boeing, IBM, and Paramax - and a large number of subcontractors. The STARS goal is to increase software productivity, reliability, and quality by synergistically integrating support for modern software development processes and modern reuse concepts within state-of-the-art software engineering environment technology

TemPRO	Software Consultants Int. Ltd 13812 SE 240th Street Kent, WA 98042-3321	Lawrence Peters TEL: 206-631-4212 FAX: 206-631-2328 scll@interserv.com	√	Provides a complete and unique complement of simulation capabilities.
Toolbuilder	IPSYS Software Marlborough Court Pickford Street, Macclesfield SK11 6JD, Cheshire, UK	TEL: 508-463-0006 FAX: 508-462-9198		A Meta-CASE environment that enables rapid prototyping and development of customized CASE environments.
Virtual Software Factory (VSF) Limited	Virtual Software Factory 8300 Boone Boulevard Vienna, VA 22182	Dr. Mel Selwood 703-848-9282		Workbench that allows user to specify methodology; methodology independent - can be configured to support any method; has been used for SADT, OOD and IDEF.
Wizdom Works! for Windows	Wizdom Systems Inc 1300 Iroquois Avenue Naperville, IL 60563	Rita Feeney TEL: 708-357-3000 FAX: 708-357-3057 rita@wizdom.com	√	A suite of tools for Business Process Reengineering.
WorkFlow Analyzer	Meta Software Corp. 125 Cambridge Park Drive Cambridge, MA 02140	Lou Zand TEL: 617-876-9725 FAX: 617-661-2008 seltzer@metasoft.com	√	Models can be tested under differing "What if" scenarios.

A10 WIN by Knowledge Based Systems, INC.

Product Information:

Version Number:	2.01
Release Date:	December 1994
Frequency of Updates:	As needed
Date of First Release:	1983
Number Sold/Released:	

Pricing:

Single User Price:	$2995
Site License:	(Other pricing information
Multi-Copy Price:	available upon request)
Upgrade Costs:	
Maintenance Price:	

Contact Information:

For vendor: in business since:	1988
For R&D: date research began:	1987
Address:	1500 University Drive East College Station, TX 77840-2335
Point of Contact:	Marketing Department
Phone Number:	409-260-5274
Fax Number:	409-260-1965
E-mail Address:	products@kbsi.com
Electronic BBS:	409-260-4606
Customer Support :	409-260-5274

Process Technology Areas/Capabilities:

Definition
Modeling
Process Examples
Enactment
Asset Library

Intended Application Area:

MIS
Technical
Real-Time

Intended Users of Technology/Tool:

Analysts
Quality Assurance

Methodology Base:

IDEF

Configurations:

Operating Enviroment:	Windows 3.1
Minimum System Requirements:	4 MB memory

Data Import/Export Information:

Exports: IDL, Formated Text Files, Cost Data for spreadsheets

Description/Purpose:

Automated IDEF0 modeling tool that captures information into pools for reuse throughout a project. Supports Activity Based Costing through the capture, rollup, and export of costing information into various spreadsheet software packages.

ABLE Concensus by Triune Software, Inc.

Product Information:

Version Number:	2.0
Release Date:	March 95
Frequency of Updates:	Annual
Date of First Release:	March 93
Number Sold/Released:	120

Pricing:

Single User Price:	$2,500
Site License:	$32,000
Multi-Copy Price:	$14,900 for 20
Upgrade Costs:	Call for cost
Maintenance Price:	10%

Contact Information:

For vendor: in business since: January 1989
For R&D: date research began: January 1990

Address: 2900 Presidential Dr. Suite 240
Fairborn, OH 45324

Point of Contact: Keith Lomstock/Alan Dennis
Phone Number: 513-427-9900/706-613-5348
Fax Number: 513-427-9964
E-mail Address: adennis@uga.cc.nga.edu
Electronic Bulletin Board:
Customer Support : 513-427-9900

Process Technology Areas/Capabilities:

Definition Modeling

Intended Application Area:

MIS	Technical	Embedded System Development	
Real-Time	Scientific Development	Transaction Processing	
Government	Environmental	Business/Finance	Manufacturing
Medical	Utilities	CM	

Intended Users of Technology/Tool:

Process Engineer	Software Developers	Software Managers	Analysts
End Users	Configuration Managers	Software Developers	Quality Assurance

Methodology Base:

Structured Analysis IDEF

Configurations:

Operating Enviroment:	DOS 6.X and above
Minimum System Requirements:	486 with 4 megs of RAM

Data Import/Export Information:

IDL

Description/Purpose:

ABLE Consensus is a groupware-based process modeling tool that enables a group to quickly build a business process model. Because all members of the group can work on the same model simultaneously for up to 100 computers, the model is developed much more rapidly than using tools designed to permit only one person to work at one time.

ABLE PM by Triune Software

Product Information:

Version Number:	2.1
Release Date:	December 94
Frequency of Updates:	6-9 months
Date of First Release:	Spring '89
Number Sold/Released:	

Pricing:

Single User Price:	
	$ 495 Executive
	$ 1995 (v2.1 for Windows)
	$ 1995 (v2.0 for Mac)
Maintenance Price:	$ 495

Contact Information:

For vendor: in business since:	January 89
For R&D: date research began:	1987
Address:	2900 Presidentail Dr., Suite 240 Fairborn, OH 45324
Point of Contact:	Doug Bernard
Phone Number:	513-427-9900
Fax Number:	513-427-9964
E-mail Address:	
Electronic Bulletin Board:	
Customer Support :	513-427-9900

Process Technology Areas/Capabilities:

Process-Driven Modeling

Intended Application Area:

MIS Government Business/Finance Manufacturing

Intended Users of Technology/Tool:

Process Engineer Software Developers Analysts Quality Assurance

Methodology Base:

Structured Analysis IDEF

Configurations:

Operating Enviroment:	Windows 3.1
Minimum System Requirements:	386 DX

Data Import/Export Information:

IDL Import/Export Print to .bmp files

Description/Purpose:

BLE-PM is an IDEF0 based BPI tool. Graphically models large or small systems; compare alternatives; examine options for growth and improvement; understand the cost and impact of proposed changes.

STSC Process Technologies Product Sheet Version 2.0c

AGE/ASA by Logiscope Technologies

Product Information:

Version Number:	2.4
Release Date:	1993
Frequency of Updates:	one/year
Date of First Release:	1986
Number Sold/Released:	1500

Pricing:

Single User Price:	$15,000
Site License:	contact salesperson
Multi-Copy Price:	contact salesperson
Upgrade Costs:	contact salesperson
GSA Price:	not available
Maintenance Price:	10% of price

Contact Information:

For vendor: in business since:	1984
For R&D: date research began:	1984
Address:	3010 LBJ Freeway, Ste 900 Dallas, Texas 75234
Point of Contact:	Andy Gordon
Phone Number:	214-241-6595
Fax Number:	214-241-6594
E-mail Address:	sales@logtech.com
Electronic Bulletin Board:	
Customer Support :	800-424-3095

Process Technology Areas/Capabilities:

Modeling Other: Analysis

Intended Application Area:

Technical	Real-time	Embedded Systems Development
Utilities	Governement	Scientific Development

Intended Users of Technology/Tool:

Analysts Software Developers Software Managers

Methodology Base:

IDEF

Configurations:

Operating Enviroment:	Sun, HP, IBM, VAX, DEC
Minimum System Requirements:	30 MB Disk space, 20 MB RAM

Data Import/Export Information:

Description/Purpose:

ASA is a CASE tool based on the IDEF-0 formalism. Its graphical interface provides a user-friendly environment to simulate, model and generate test cases for system or software level analysis

STSC Process Technologies Product Sheet Version 2.0c

The Articulator Environment by USC System Factory Project

Product Information:

Version Number:	June, 1994
Release Date:	June, 1994
Frequency of Updates:	12 months
Date of First Release:	Dec. 1991
Number Sold/Released:	8

Pricing:

Distributed to research sponsors per contracted terms

Contact Information:

Date research began: 1981

Address:
Information and Operations Management Dept.
University of Southern California
Los Angeles, CA 90089-1421

Point of Contact:	Dr. Walt Scacchi
Phone Number:	213-740-4782
Fax Number:	213-740-8494
E-mail Address:	scacchi@gilligan.usc.edu

Process Technology Areas/Capabilities:

Assessment	Metrics Support	Definition	Process Examples
Modeling	Asset Library	Analysis	Process-Driven SEE
Enactment	Visualization	Simulation	Process Integration

Other: Process-Level Interoperability, Process Scheduling & Process Repair

Intended Application Area:

Technical	MIS	Government	Real-time
Business/Finance	Medical	Training	

Intended Users of Technology/Tool:

Software Developers Software Managers Process Engineers

Can be customized to any defined user role

Methodology Bases:

Process Language	Entity Process Modeling	Rule-based
Object-oriented	Behavior-oriented	Knowledge-Based

Methodology Independent (therefore can also support structured analysis, system dynamics, Petri nets and IDEF though these are considered to be weaker methodologies by the System Factory developers)

Configurations:

Operating Enviroment:	SUN SPARC Stations-2, Knowledge-Craft from Carnegie Group
Minimum System Requirements:	24 MB, 75 MB swap/disk

Data Import/Export Information:

Compatible with heterogeneous, distributed data and tool repositories

Description/Purpose:

We have developed and continue to evolve and deliver a configurable environment of software process engineering technologies for large-scale development applications. Our technology is being transferred into commercial products at this time. The largest project entails the development of a prototype process-driven environment for use in the B-2 Division at Northrop, Inc., in Pico Rivera, CA. Additional reference material is available.

Authormate by Eclectic Solutions Corporation

Product Information:

Version Number:	1.1
Release Date:	March 94
Frequency of Updates:	
Date of First Release:	1987
Number Sold/Released:	NA

Pricing:

Single User Price:	$495
Site License:	None
Multi-Copy Price:	$495
Upgrade Costs:	None
Maintenance Price:	1st year free; 250 per year

Contact Information:

For vendor: in business since:	1984
For R&D: date research began:	
Address:	764 Fifth Avenue, Suite B San Diego, CA 92101-6918
Point of Contact:	C.A. (Al) Irvine
Phone Number:	619-696-7529
Fax Number:	619-558-7928
E-mail Address:	
Electronic Bulletin Board:	
Customer Support :	619-546-0804

Process Technology Areas/Capabilities:

Definition	Modeling	Metric Support

Intended Application Area:

MIS	Technical	Embedded System Development	
Real-Time	Scientific Development	Transaction Processing	
Government	Environmental	Business/Finance	
Manufacturing	Medical	Utilities	CM

Intended Users of Technology/Tool:

Process Engineer	Software Developers	Software Managers	
Analysts	Configuration Managers	Software Developers	Quality Assurance

Methodology Base:

Structured Analysis	Entity Process Modeling
Data Model Diagrams	IDEF

Configurations:

Operating Enviroment:	DOS
Minimum System Requirements:	530Kb Base

Data Import/Export Information:

ASCII Text (all platforms) and IDL

Description/Purpose:

Support SADT (Activity and Data Modeling) and IDEF0 (Functional Modeling), Model Maintenance and Reuse, Model Distribution, and Modeling Team (Groupware Support).

STSC Process Technologies Product Sheet Version 2.0c

CAIS-A by SofTech, Inc.

Product Information:

Version Number:	5.5G
Release Date:	Feb. 1992
Frequency of Updates:	as required
Date of First Release:	June 1990

Pricing:

Maintained under government contract; free to government agencies

Contact Information:

In business since:	1969
Date research began:	1985
Address:	10875 Rancho Bernardo Rd Suite 100 San Diego, CA 92127
Point of Contact:	Gary Pritchett
Phone Number:	619-451-9318
Fax Number:	619-451-9327
E-mail Address	garyp@nosc.mil

Process Technology Areas/Capabilities:

Definition
Process-Driven Framework

Enactment

Modeling

Intended Application Area:

Technical

Software Engineering Environment

Intended Users of Technology/Tool:

Software Developers

Software Managers

Process Engineers

Methodology Base:

Process Language

Entity Process Modeling

Object-oriented

Configurations:

Operating Enviroment: VAX/VMS SUN-3/UNIX SUN-4/UNIX
Minimum System Requirements: 16MB RAM minimum

Data Import/Export Information:

Description/Purpose:

CAIS-A is an implementation of a software engineering environment framework providing platform independence and supporting tool integration.

Continuus CM & PT by Continuus Software

Product Information:

Version Number:	4.0
Release Date:	November 94
Frequency of Updates:	1 major per year
Date of First Release:	1990
Number Sold/Released:	

Pricing:

Continuus CM & PT are available on floating user license

Single User Price:	$4000
Site License:	Yes
Multi-Copy Price:	Sliding Scale Qty. Discount
Upgrade Costs:	Include in Maintenance
Maintenance Price:	% of Purchase Price

Contact Information:

For vendor: in business since:	1987
For R&D: date research began:	1987
Address:	108 Pacifica Irvine, CA 92718
Point of Contact:	Dina Hannum
Phone Number:	714-453-2200
Fax Number:	714-453-2276
E-mail Address:	info@continuus.com
Electronic Bulletin Board:	
Customer Support :	714-453-2200 support@continuus.com

Process Technology Areas/Capabilities:

Definition	Process Examples	Process-Driven SEE	Enactment
Asset Library	Problem Tracking	Configuration Managment	
Modeling	Process-Supported-SEE	Process-Driven Framework	Metric Support

Intended Application Area:

MIS	Technical	Embedded System Development
Real-Time	Scientific Development	Transaction Processing
Government	Environmental	Business/Finance
Medical	Utilities	CM

Intended Users of Technology/Tool:

End Users	Software Managers	Configuration Managers
Quality Assurance	Software Developers	

Methodology Base:

Rule-Based	Methodology Independent	Object Oriented

Configurations:

Operating Enviroment:	Sun, HP, SGI, IBM RS/6000
Minimum System Requirements:	16 MB Client, 32 MB Server (Minimum)

Data Import/Export Information:

Continuus/CM provides for data to be imported to and exported from its environment

Description/Purpose:

Continuus/CM &PT are client/server based configuration management and problem tracking tools. Target to the Unix market which provide complete control over the software development environment. The Products provide a predefined, modifiable process for rapid implementation, as well as a suite or customization tools for end users. Designed for development teams, *Continuus* products provide a graphical user interface and an SCS command line interface, and seamlessly integrated with popular development tools.

Design/CPN by Meta Software Corporation

Product Information:

Version Number:	2.0
Release Date:	Oct. 1993
Date of First Release:	April, 1989
Number Sold/Released:	100+

Pricing:

Single User Price:	$24,000
Site License:	Quoted upon request
Multi-Copy Price:	Quoted upon request
Upgrade Costs:	Inc in maintenance
GSA Price:	$19,200 single license
Maintenance Price:	$4000/yr (1st yr free)

Contact Information:

In business since:	Dec. 1985
Date research began:	1986
Address:	125 Cambridge Park Drive Cambridge, MA 02140
Phone Number:	617-576-6920
Point of Contact:	Lou Zand
Phone Number:	617-876-9725
Fax Number:	617-661-2008
E-mail Address:	seltzer@metasoft.com
Cust. Support:	cpn-tech-support@metasoft.com

Process Technology Areas/Capabilities:

Definition Metrics Support Modeling Process Examples

Intended Application Area:

Technical Simulation All

Intended Users of Technology/Tool:

Software Developers Process Engineers Analysts

Methodology Base:

IDEF Petri Nets

Configurations:

Operating Enviroment:	Mac, X-Windows (Sun Solaris, HPUX)
Minimum System Requirements:	Varies, depending on platform.

Data Import/Export Information:

ASCII, User-definable import/export facility
- IDL, spreadsheets, Activity-Based Costing, CASE (Knowledge ADW), Node Tree

Description/Purpose:

Design/CPN is based on the principles of colored Petri nets (CP-nets) which embody mathematical and graphical approaches to system behavior. Using Design/CPN, you can graphically explore the characteristics and limits of design and create high-quality models within a formal framework. In addition, the tool is tailored for rigorous analyses of behavioral issues such as concurrency, deadlock, or safety that repeatedly surface in complex distributed systems.

Design/CPN consists of an editor for modeling the system and a simulator for executing the model. The modeling inscriptions are defined in a version of Standard ML, a functional programming language. Using standard ML you can also create code segments for sophisticated animation and instrumentation. Design/IDEF IDEF0 process models can be automatically converted to dynamic models and transferred to Meta's WorkFlow Analyzer for behavioral simulation and analysis. In addition, Design/IDEF can act as the cornerstone for BPR, Workflow, CASE and financial analysis through its export/import facilities.

Design/IDEF by Meta Software Corporation

Product Information:

Version Number:	3.5
Release Date:	March 1995
Date of First Release:	Dec. 1987
Number Sold/Released:	1000+

Pricing:

Single User Price:	$3,995
Site License:	Quoted upon request
Multi-Copy Price:	Quoted upon request
Upgrade Costs:	Inc. in maintenance
GSA Price:	$3196 (1 license)
Maintenance Price:	$600/yr (1st yr incl)

Contact Information:

In business since:	Dec. 1985
Date research began:	1986
Address:	125 Cambridge Park Drive Cambridge, MA 02140
Phone Number:	617-576-6920
Point of Contact:	Patty Kostusiak
Phone Number:	617-576-6920 x35
Fax Number:	617-661-2008
E-mail Address:	patty@metasoft.com

Cust Support : idef-tech support@metasoft.com

Process Technology Areas/Capabilities:

Definition Metrics Support Modeling Process Examples

Intended Application Area:

Business Process Redesign Technical Workflow MIS

Intended Users of Technology/Tool:

Software Developers Managers Process Engineers and Analysts

Methodology Base:

IDEF0 Process Modeling IDEF1X Data Modeling

Configurations:

Operating Enviroment:	MS-Windows 3.X, Mac, X-Windows (Sun Solaris, HPUX, AIX)
Minimum System Requirements:	4 MB or greater, depending on platform

Data Import/Export Information:

AML, SML, ASCII, ANSI X3.138-1988 IRDS
IDL, spreadsheets, Activity-Based Costing, Node Tree, CASE (Knowledge ADW)

Description/Purpose:

Design/IDEF supports and automates modeling for Business Process Redesign/Reengineering. Design/IDEF supports the public domain IDEF methodology (IDEF0 for process modeling and IDEF1X for data modeling). Design/IDEF is very easy to learn and is an excellent communication tool. Design/IDEF's intelligent graphical engine responds to your modeling needs as you work. You can define complex systems through gradual, hierarchical decomposition of detail to produce models which are easily read by anyone in the corporate structure. Design/IDEF supports: an integrated glossary for defining terms, a flexible data dictionary, IDEF0 and IDEF1X integration, Activity Based Costing, links to CASE, techniques for import/export of information (AML, SML, IDL), links to simulation.

STSC Process Technologies Product Sheet Version 2.0c

EasyCASE Professional by Evergreen CASE Tools

Product Information:

Version Number:	4.2
Release Date:	November 1994
Frequency of Updates:	6 - 18 Months
Date of First Release:	1989
Number Sold/Released:	10,000+

Pricing:

Single User Price:	Please Call
Site License:	
Multi-Copy Price:	
Upgrade Costs:	
Maintenance Price:	NA

Contact Information:

For vendor: in business since:	1989
For R&D: date research began:	1989
Address:	8522 154th Avenue, NW Redmond, WA 98502
Point of Contact:	Brian Hansford
Phone Number:	206-881-5149
Fax Number:	206-883-7676
E-mail Address:	
Electronic Bulletin Board:	
Customer Support :	Same as above

Process Technology Areas/Capabilities:

Definition Process Examples Modeling

Intended Application Area:

All

Intended Users of Technology/Tool:

Process Engineer Software Developers Software Managers
Analysts End Users

Methodology Base:

Rule-Based Structured Analysis Entity Process Modeling IDEF
E-R Model State Transition Diagrams Data Model Diagrams

Configurations:

Operating Enviroment: Windows
Minimum System Requirements: 4 MB RAM, 5MB disk space

Data Import/Export Information:

DBASE III+, ASCII, SDF, CSV

Description/Purpose:

EasyCASE Professional v4.2 -> Process Modeling
EasyCASE Database Engineer -> Process and Data Modeling

EasyCASE Professional v4.2 offers process and data modeling functionality with all of the standard structured analysis and design methodologies, and chart diagrams. In addition, a series of reports can be generated from an integrated shareable data dictionary.
Database Engineer is a development tool that supports schema generation and reverse engineering for xBASE and SQL, triggers, stored procedures, domains (user defined data types), and referential integrity constraints.

firstcase Process/Project Management Solution by AGS Management Systems,

Product Information:

Version Number:	Release 3.4
Release Date:	April 1995
Frequency of Updates:	Annual
Date of First Release:	January 1990

Pricing:

firstcase Methodology	$29,500
firstcase Automation	Volume pricing
GSA Price	7% discount
Maintenance Price:	15% of Total

Contact Information:

For vendor: in business since: 1969

Address: 1012 W. Ninth Avenue
King of Prussia, PA 19406

Point of Contact:	Valerie Palamountain
Phone Number:	610-265-1550
Fax Number:	610-265-1230
E-mail Address:	
Electronic Bulletin Board:	
Customer Support :	610-265-6305

Process Technology Areas/Capabilities:

Definition	Process Examples	Process-Driven Framework
Enactment	Modeling	Metric Support
Other: Assessment		

Intended Application Area:

All | Technical | MIS | Real-Time

Intended Users of Technology/Tool:

Process Engineer | Software Developers | Software Managers | Quality Assurance

Methodology Base:

Structured Analysis	Entity Process Modeling	Methodology Independent
Behavior-Oriented	E-R Model	Data Model Diagrams
Other: Client/Server		

Configurations:

Operating Enviroment: Networked based client/server application, SQL integrated database. Dedicated server running OS/2 or Netware
Minimum System Requirements:

Data Import/Export Information:

Description/Purpose:

firstcase is an automated Process Management, Estimating and Project Management System with an integrated database housing the complete family of *firstcase* Methodologies including Structured, Client/Server, Information Engineering and Enterprise strategic planning.

STSC Process Technologies Product Sheet Version 2.0c

I-CASE OMT by Westmount USA, Inc.

Product Information:

Version Number:	3.0
Release Date:	June 94
Frequency of Updates:	Annual
Date of First Release:	January 94
Number Sold/Released:	300

Pricing:

Single User Price:	12,900
Site License:	N/A
Multi-Copy Price:	Discounted
Upgrade Costs:	Included in Maintenance
Maintenance Price:	15% of License cost

Contact Information:

For vendor: in business since:	1986
For R&D: date research began:	1990
Address:	111 Anza Blvd. Suite 300 Burlingame CA, 94010
Point of Contact:	Stephen Boskin
Phone Number:	415-348-4853
Fax Number:	415-348-6821
E-mail Address:	stbo@west.nl
Electronic Bulletin Board:	
Customer Support :	helpdesk@west.nl

Process Technology Areas/Capabilities:

Definition	Asset Library	Framework	Modeling

Intended Application Area:

Government	Environmental	Business/Finance
Manufacturing	Medical	Utilities

Intended Users of Technology/Tool:

Process Engineer	Software Developers	Software Managers
Analysts	Software Developers	

Methodology Base:

Object Oriented	State Transition Diagrams	Other: OMT

Configurations:

Operating Enviroment:	All major UNIX platforms; Win '95 when released
Minimum System Requirements:	16MB RAM 40-50 MB Disk

Data Import/Export Information:

Description/Purpose:

Westmount I-CASE OMT is an Open Integrated Computer Aided Software Engineering (CASE) tool (based on X and OSF/Motif) for developers to meet the goals set by Object-Oriented Modeling Techniques. It provides full life-cycle support and seamless target integration. Westmount I-CASE OMT generates client/server applications for C++, New Era, CA/Open Ingres and Informix environments.

I-CASE Yourdon by Westmount USA Inc.

Product Information:

Version Number:	3.2
Release Date:	2/95
Frequency of Updates:	2/yr
Date of First Release:	1988
Number Sold/Released:	2000

Pricing:

Single User Price:	$12,900
Site License:	N/A
Multi-Copy Price:	Discounted by # of Seats
Upgrade Costs:	Included in Maintenance
Maintenance Price:	15% of list

Contact Information:

For vendor: in business since:	1986
For R&D: date research began:	1987
Address:	111 Anza Blvd. Suite 300 Burlingame, CA 94010
Point of Contact:	Stephen Boskin
Phone Number:	415-348-4853
Fax Number:	415-348-46821
E-mail Address:	stbo@wmt.nl
Electronic Bulletin Board:	
Customer Support :	helpdesk@wmt.nl

Process Technology Areas/Capabilities:

Definition	Process Examples	Process-Driven SEE	Modeling
Asset Library	Process-Driven Framework	Process-Supported-SEE	

Intended Application Area:

MIS	Real-Time	Transaction Processing
Government	Environmental	Business/Finance
Manufacturing	Medical	Utilities

Intended Users of Technology/Tool:

Process Engineer	Software Developers	Software Managers	Analysts

Methodology Base:

Structured Analysis	Entity Process Modeling	E-R Model
Data Model Diagrams	Backus-Naur Notation	

Configurations:

Operating Enviroment:	All major UNIX platforms, Windows 95 when released.
Minimum System Requirements:	16 MB (RAM), 40-50 MB (Disk)

Data Import/Export Information:

CDIF

Description/Purpose:

Westmount I-CASE for Yourdon is an Integrated Computer Aided Software Engineering (I-CASE) environment supporting the full development life cycle of business information systems. It's Upper CASE toolset supports process definition and data modeling using primarily structured analysis and Yourdon methodology. It's lower CASE toolset supports code generation for all major RDBMS's as well as C, multiple 4GL's, 3GL's and GUI builders.

STSC Process Technologies Product Sheet Version 2.0c

Integrated Knowledge Environment (IKE) by Knowledge Base Engineering

Product Information:

Version Number:	PC: 2.1.2, Mac:2.0
Release Date:	PC: 1/95, Mac: NA
Frequency of Updates:	Every Three Months
Date of First Release:	PC: 11/92, Mac: 1/91
Number Sold/Released:	25

Pricing:

Commercial version not available at this time.
Government purpose license rights.

Contact Information:

For vendor: in business since:	4/86
For R&D: date research began:	4/86
Address:	71 Rhoads Center Drive Centerville, OH 45458
Point of Contact:	Sam or Greg Nusinou
Phone Number:	513-434-1716
Fax Number:	513-434-4246
E-mail Address:	
Electronic Bulletin Board:	
Customer Support :	513-434-1716

Process Technology Areas/Capabilities:

Definition	Process Examples	Process-Driven SEE	Modeling
Enactment	Process-Driven Framework	Problem Tracking	
Configuration Managment		Process-Supported-SEE	Metric Support

Intended Application Area:

Technical	Real-Time	Transaction Processing	CM
Government	Environmental	Business/Finance	
Manufacturing	Medical	Utilities	

Intended Users of Technology/Tool:

All

Methodology Base:

Rule-Based	Structured Analysis	Entity Process Modeling	
Object Oriented	Behavior-Oriented	State Transition Diagrams	IDEF

Configurations:

Operating Enviroment:	PC Dos/Windows for workgroups 3.11, Mac OS 7.0 or greater
Minimum System Requirements:	(Mac Quadra 16 MB, PC 486 DX2 16 MB) or greater

Data Import/Export Information:

Common multi-media formats and ASCII.

Description/Purpose:

The integrated Knowledge Environment (IKE) provides advanced authoring capabilities for rapidly evolving intelligent multi-media process oriented computer based training and knowledge capture applications. The IKE architecture contains easy to use components for dynamically integrating process data, graphics, data objects, forms, rules, text, video, bit mapped images, and computer-off-the-shelf software into single or multi-user applications without any computer programming. IKE PC version can access and update data in an Oracle client/server database environment via SQL* Net.

ISPW by Benchmark Technologies

Product Information:

Version Number:	2.0
Release Date:	1995
Frequency of Updates:	18 mo.
Date of First Release	1988
Number Sold/Released:	

Pricing:

$30,000 - $25,000
Maintenance Price: 15% of list price

Contact Information:

In business since:	1986
Date research began:	1985
Address:	Suite 300, 839 5th Ave. SW Calgary, Alberta Canada T2P 3C8
Point of Contact:	Christina McGill
Phone Number:	403-269-7499
Fax Number:	403-265-2379

Process Technology Areas/Capabilities:

Process-Supported SEE
Process-Driven SEE
Change Management
Configuration Management

Intended Application Area:

MIS

Intended Users of Technology/Tool:

Software Developers Software Managers Quality Assurance End Users

Methodology Base:

Methodology Independent

Configurations:

Operating Enviroment: MVS (IBM Mainframe) and connected OS/2 and DOS/Windows workstations

Minimum System Requirements:

Data Import/Export Information:

Description/Purpose:

ISPW is an automated application management environment spanning many development functions including change and configuration management; it is a framework for tool interaction and a work environment for the management of procedures, methods, technologies, standards, and people under a common control policy. ISPW can be customized for the organization's own process and standards and provides a comprehensive audit trail. Support for specialized group and project documentation requirements. ISPW has integrated a variety of CASE tools to help manage the development process.

STSC Process Technologies Product Sheet Version 2.0c

KI Shell by UES, Inc. Knowledge Integration Center

Product Information:

Version Number:	V 1.2.3
Release Date:	6/15/94
Frequency of Updates:	6-12 Months
Date of First Release:	October 1990
Number Sold/Released:	60 Development/4000 RT

Pricing:

Single User Price: Development $18k, Runtime $1.2k
Site License: Available
Multi-Copy Price: Negotiated quantity discounts
Upgrade Costs: none
Maintenance Price: Call for details

Contact Information:

For vendor: in business since: 1973
For R&D: date research began: 1986

Address: 5162 Blazer Memorial Parkway
Dublin, OH 43017-1339

Point of Contact: Charles R. Ditchendorf
Phone Number: 614-793-2562
Fax Number: 614-792-0998
E-mail Address: chuck@columbus.ues.com
Electronic BBS: http://www.columbus.ues.com
Customer Support : 614-792-9994

Process Technology Areas/Capabilities:

Definition	Process Examples	Process-Driven SEE	Enactment
Asset Library	Process-Driven	Framework	Problem Tracking
Modeling	Process-Supported-SEE	Metric Support	

Intended Application Area:

MIS	Technical	Real-Time	Scientific Development
Government	Environmental	Business/Finance	Manufacturing
Medical	Utilities	CM	

Other: Engineering Change Orders, Requlatory Compliance, ISO

Intended Users of Technology/Tool:

Process Engineer	Software Developers	Software Managers	Analysts
Software Developers	Quality Assurance	End Users	

Methodology Base:

Rule-Based	Structured Analysis	Entity Process Modeling	Petri Nets
IDEF	Methodology Independent	State Transition Diagrams	
E-R Model	Object Oriented		

Configurations:

Operating Enviroment:	DEC Vax/VMS, DEC Ultrix, DOS-Windows, RS/6000 AIX, IBM OS/2, SGI IRIX, Sun OS, Sun Solaris, HP 9000 UX
Minimum System Requirements:	Development/Server 32 MB Memory, 40 MB Hard drive; Runtime 16 MB Memory, 20 MB Hard Drive.

Data Import/Export Information:

IDEF0, KnowledgeWare ADW, SQL Tables. IDEF3 planned.
Uses Oracle, Sybase, and/or DB2 for process repositories. Uses SQLNet to access product data within Enterprise LAN/WAN on any database. Full process metrics available.

Description/Purpose:

Models and compiles executable runtime code for managing workflow processes between multiple users, provides decision support and application tool integration. It is the work management tool of choice for establishing interoperability standards for virtual enterprises on the NII.

MethodMaker by Mark V Systems

Product Information:

Version Number:	3.4
Release Date:	Jan 95
Frequency of Updates:	twice / year
Date of First Release:	August 1993
Number Sold/Released:	250

Pricing:

Single User Price:	$10,000
Site License:	Call for info
Multi-Copy Price:	Call for info
Maintenance Price:	15% of cost

Contact Information:

In business since:	1974
Address:	16400 Ventura Blvd #303 Encino, CA 91436
Point of Contact:	Marketing
Phone Number:	818-995-7671
Fax Number:	818-995-4267
E-mail Address:	info@markv.com
Customer Support :	support@markv.com

Process Technology Areas/Capabilities:

Definition — Prototyping of Method Tool Support

Intended Application Area:

All — Other: Software and Process Engineering, System

Intended Users of Technology/Tool:

Software Developers — Software Managers — Process Engineers

Methodology Base:

Structured Analysis	Petri Nets	Entity Process Modeling
Rule-Based	Object Oriented	Behavior-oriented
IDEF	Methodology Independent	

Configurations:

Operating Enviroment:	Most UNIX, VMS and PC Windows
Minimum System Requirements:	UNIX/VMS - 12 MB PC - 4 MB

Data Import/Export Information:

Under Development

Description/Purpose:

MethodMaker is a meta method tool generator for developing and extending process and method notations. MethodMaker supports graphical modeling of a process notation and then automatically generates Process Maker predicate logic rule support.

STSC Process Technologies Product Sheet Version 2.0c

MicroWorld Creator by MicroWorlds, Inc.

Product Information:

Version Number:	2.0
Release Date:	4/92
Frequency of Updates:	
Date of First Release:	1988
Number Sold/Released:	approx. 1000

Pricing:

Single User Price:	$680.00
Site License:	Runtime vers. avail.
Multi-Copy Price:	
Upgrade Costs:	
GSA Price:	
Maintenance Price:	No charge

Contact Information:

In business since:	1988
Date research began:	
Address:	47 Third Street, Suite 200 Cambridge, MA 02141
Point of Contact:	Elizabeth Peterson
Phone Number:	617-225-0025
Fax Number:	617-225-0028
E-mail Address:	mworlds@aol.com
Electronic Bulletin Board:	--------
Customer Support :	617-225-0025

Process Technology Areas/Capabilities:

Modeling — Process Examples — Process-Driven Framework
Metrics Support — Asset Library

Intended Application Area:

Technical — Real-time — MIS
Other: Software Project Management/Strategy

Intended Users of Technology/Tool:

Software Managers
Other: Model Developers, Workshop Facilitators

Methodology Base:

System Dynamics — Behavior-oriented

Configurations:

Operating Enviroment:	Mac OS
Minimum System Requirements:	1 MB RAM

Data Import/Export Information:

Import/Export text files and spreadsheet data.

Description/Purpose:

Tool takes as input a description of a system expressed graphically (using STELLA) or using the MicroWorlds simulation language. MicroWorlds Creator creates simulations and provides an effective user interface; mainly targeted for workshop/training use - e.g., for learning about software project dynamics and understanding software project management.

ObjectMaker by Mark V Systems

Product Information:

Version Number:	3.4
Release Date:	Jan 95
Frequency of Updates:	twice / year
Date of First Release:	August 1992
Number Sold/Released:	4000+

Pricing:

Single User Price:	$1,350
Site License:	Call for info
Multi-Copy Price:	Call for info
Maintenance Price:	15% of cost

Contact Information:

In business since:	1974
Address:	16400 Ventura Blvd #303 Encino, CA 91436
Point of Contact:	Marketing
Phone Number:	818-995-7671
Fax Number:	818-995-4267
E-mail Address:	info@markv.com objectmaker@markv.com
Customer Support :	support@markv.com

Process Technology Areas/Capabilities:

Behavioral modeling	Code generation	Data Modeling	Object Modeling
Process Modeling	Reverse Engineering		

Intended Application Area:

Technical	Real-time	Commercial

Intended Users of Technology/Tool:

Software Developers	Software Managers	Process Engineers

Methodology Base:

ADARTS	Booch	Coad-Yourdon
Data Flow Diagram	DeMarco-Yourdon	E-R Diagram
State Chart	Firesmith	Gane-Sarson
Hatley-Pirbhai	Petri Net	Shlaer-Mellor

Configurations:

Operating Enviroment:	DEC RISC, DG Aviion, HP9000, IBM RS/6000, PC, Macintosh, MIPS RISC, Motorola 88000, Intel X86
Minimum System Requirements:	

Data Import/Export Information:

Description/Purpose:

ObjectMaker is a software development workbench using a variety of object-oriented methods and supporting analysis, design, code generation, and reverse engineering. All ObjectMaker editors and method definitions are integrated through a common semantic repository based on PCTE. Provides full online checking for completeness and consistency against the method design rules as designs are entered. ObjectMaker's rule-based architecture allows notations, semantics, code generation, methods, menus, and accelerator keys to be tailored to match language, industry and company-specific requirements. Works with language modules in Adagen (Ada) and Cgen (C and C++) which also provides code generation and reverse engineering.

OBJECTORY by Objectory Corporation.

Product Information:

Version Number:	3.5
Release Date:	February 1995
Frequency of Updates:	~yearly
Date of First Release:	September 1990
Number Sold/Released:	~1800

Pricing:

Single User Price:	Range from 3K-10K
Site License:	Negotiable
Multi-Copy Price:	Discounts up to 40%
Upgrade Costs:	Included in Maintenance
Maintenance Price:	20% of listprice/year

Contact Information:

For vendor: in business since:
For R&D: date research began:

Address: 300 Atlantic Street, Suite 1111
Stamford, CT 06901

Point of Contact:	Lucia Jansen
Phone Number:	203-363-7555
Fax Number:	203-363-7556
E-mail Address:	
Electronic Bulletin Board:	
Customer Support :	

Process Technology Areas/Capabilities:

Definition	Configuration Management	Process Examples	Process-Driven SEE
Modeling	Metric Support	Other: OOA, OOD, OOBPR	

Intended Application Area:

MIS	Technical	Transaction Processing	Business/Finance
Medical	Utilities	Other: Telecom	

Intended Users of Technology/Tool:

Process Engineer	Software Developers	Software Managers
Analysts	Quality Assurance	Configuration Managers

Methodology Base:

Object-Oriented Behavior-Oriented State Transition Diagrams
Others: Objectory, OOSE, Jacobson

Configurations:

Operating Enviroment:	DOS/Windows, Win NT, OS/2, SUN/Sparc Solaris 1 and 2, IBM/RS6000/AIX, HP/UX
Minimum System Requirements:	>=16BM RAM on all platforms

Data Import/Export Information:

Through Configuration Items (CI) to/from external archive. Full CM/VC support.

Description/Purpose:

Objectory is an integral OO system development process and a set of integrated tools, the Objectory support environment. Objectory is a full life cycle covering process for object oriented BPR (OO business modeling) and object oriented system development. Objectory is scalable to large scale development scenarios and large and complex systems. The support environment is highly configurable, flexible, and open tool this is easy to build into customer specific, complete, support environments. Objectory has been in use since 1990 and has been used in more than 100 real projects all over the world since.

PowerSIM™ by MicroWorlds, Inc.

Product Information:

Version Number:	2.0
Release Date:	July 94
Frequency of Updates:	6 months
Date of First Release:	
Number Sold/Released:	

Pricing:

Single User Price:	$640
Site License:	
Multi-Copy Price:	
Upgrade Costs:	Varies
Maintenance Price:	

Contact Information:

For vendor: in business since:	1988
For R&D: date research began:	
Address:	47 Third Street #200 Cambridge, MA 02141
Point of Contact:	Elizabeth Peterson
Phone Number:	617-225-0025
Fax Number:	617-225-0028
E-mail Address:	mworlds@aol.com
Electronic Bulletin Board:	
Customer Support :	

Process Technology Areas/Capabilities:

Process Examples | Process-Driven Framework | Problem Tracking | Modeling

Intended Application Area:

MIS | Technical | Government | Medical
Environmental | Manufacturing | Other: Project Management/Strategy

Intended Users of Technology/Tool:

Software Managers | Analysts | Others: Model Developers

Methodology Base:

Behavior-Oriented | Other: System Dynamics

Configurations:

Operating Enviroment:	IBM comptaible PC w/ 80386 processor or better
Minimum System Requirements:	4 MB RAM or more. DOS 3.1, Windows 3.1 or better

Data Import/Export Information:

OLE, DDE capabilities

Description/Purpose:

Designed to support a quantitative and experimental approach to management as described by the System Dynamics Method. Used to model all kinds of dynamic processers including large complex, multiple feedback systems.

STSC Process Technologies Product Sheet Version 2.0c

ProCap by Knowledge Based Systems, Inc.

Product Information:

Version Number:	2.0
Release Date:	December 1993
Frequency of Updates:	As needed
Date of First Release:	
Number Sold/Released:	

Pricing:

Single User Price:	$2995
Site License:	(Other pricing information
Multi-Copy Price:	available upon request)
Upgrade Costs:	
Maintenance Price:	

Contact Information:

For vendor: in business since:	1988
For R&D: date research began:	1987
Address:	1500 University Drive East College Station, TX 77840-2335
Point of Contact:	Marketing Department
Phone Number:	409-260-5274
Fax Number:	409-260-1965
E-mail Address:	products@kbsi.com
Electronic Bulletin Board:	409-260-4606
Customer Support :	409-260-5274

Process Technology Areas/Capabilities:

Definition Process Examples Modeling

Intended Application Area:

Manufacturing Business/Finance MIS

Intended Users of Technology/Tool:

Process Engineer Analysts

Methodology Base:

IDEF Behavior-Oriented

Configurations:

Operating Enviroment:	Windows 3.1
Minimum System Requirements:	4 MB memory

Data Import/Export Information:

Formatted Text Files

Description/Purpose:

ProCap is used process capture and analysis and allows users to associate objects and contraints with processes. Allows you to model at multiple levels of detail. Build As-Is and To-Be models from the same dictionary of process elements.

Process Weaver by CAP GEMINI AMERICA

Product Information:

Version Number:	2.01
Release Date:	December 1994
Frequency of Updates:	Quarterly
Date of First Release:	May 1992
Number Sold/Released:	

Pricing:

Contact the vendor for pricing information

Contact Information:

For vendor: in business since:	1972
For R&D: date research began:	1987
Address:	8391 Old Courthouse Road Vienna, VA 22182
Point of Contact:	Vincent Jorrano
Phone Number:	800-400-1511
Fax Number:	703-790-5824
E-mail Address:	weaver@access.digex.net
Electronic Bulletin Board:	
Customer Support :	800-400-1511

Process Technology Areas/Capabilities:

Process Examples	Process-Driven SEE	Process-Driven Framework
Problem Tracking	Modeling	Enactment

Intended Application Area:

MIS	Technical	Scientific Development
Government	Business/Finance	CM

Intended Users of Technology/Tool:

Process Engineer	Software Managers	Configuration Managers	Analysts
Software Developers	Quality Assurance		

Methodology Base:

Petri Nets Other: Work breakdown structures

Configurations:

Operating Enviroment: Sun SPARC, RS6000, HP9000, DEC Station, Windows 3.1 Client

Minimum System Requirements:

Data Import/Export Information:

Workplan to/from Project Management Tools (MS Project, PMW, CAT, Schedule Publisher)

Description/Purpose:

Process Weaver is a framework in which process enactment models can be implemented. Weaver allows the user to define the process using a hierarchical, top down approach using the Method Editor to input WBS structures. The tool then uses state models to control the enactment process and Petri Nets to control the overall sequencing of the processing.

ProcessMaker by Mark V Systems

Product Information:

Version Number:	3.4
Release Date:	Jan 1095
Frequency of Updates:	4-6 mos.
Date of First Release:	August 1993
Number Sold/Released:	200

Pricing:

Single User Price:	$1,350
Site License:	Call for info
Multi-Copy Price:	Call for info
Upgrade Costs:	Call for info
Maintenance Price:	15% of cost

Contact Information:

In business since:	1974
Address:	16400 Ventura Blvd #303 Encino, CA 91436
Point of Contact:	Marketing
Phone Number:	818-995-7671
Fax Number:	818-995-4267
E-mail Address:	info@markv.com
Customer Support :	support@markv.com

Process Technology Areas/Capabilities:

Definition	Process Examples	Customizable	Modeling
Enactment	Metrics Support	Asset Library	Other:Workflow

Intended Application Area:

All

Intended Users of Technology/Tool:

Software Developers Software Managers Process Engineers
Decision Support

Methodology Base:

Process Language*	Structured Analysis	Petri Nets
Entity Process Modeling	IDEF	Object-oriented
Behavior-oriented	Methodology Independent	
Others: STRIM, RADS		

* Generates process language (or template of script) from graphic model for other tools

Configurations:

Operating Enviroment:	Most UNIX, VMS and PC Windows
Minimum System Requirements:	UNIX/VMS - 12 MB PC - 4 MB

Data Import/Export Information:

Under Development

Description/Purpose:

ProcessMaker is a rule-driven repository-based graphical process modeling tool supporting more than 15 notations and techniques. Additional methods/notations are being added, and all are customizable. Extensions to generate templates/script for process analysis and enactment tools are under development.

ProcessWall by Computer Science Deptartment, University of Colorado

Product Information:

Version Number:	1.0
Release Date:	February 1995
Frequency of Updates:	as needed
Date of First Release:	February 1995
Number Sold/Released:	5

Pricing:

Single User Price:	Call for Information
Site License:	
Multi-Copy Price:	
Upgrade Costs:	
Maintenance Price:	

Contact Information:

For vendor: in business since:
For R&D: date research began: July 1994

Address: Computer Science Dept.
University of Colorado
Boulder, CO 80309-0430

Point of Contact: Dennis Heimbigner
Phone Number: 303-492-6643
Fax Number: 303-492-2844
E-mail Address: dennis@cs.colorado.edu
Electronic Bulletin Board:

Process Technology Areas/Capabilities:

Enactment

Intended Application Area:

Government Business/Finance Manufacturing CM

Intended Users of Technology/Tool:

Process Engineer Software Developers Software Managers

Methodology Base:

Others: Process State Server

Configurations:

Operating Enviroment: Sun OS 4.x, OSF1.
Minimum System Requirements:

Data Import/Export Information:

Description/Purpose:

The ProcessWall supports the representation of current process state independent of the processes by which it was constructed. This results in a system that is open and with low cost for insertion into existing environments. It supports user-programmed process viewers, and process programs may be written in any convenient language.

STSC Process Technologies Product Sheet Version 2.0c

Professional DYNAMO 4.0 for Windows by Pugh Roberts

Product Information:

Version Number:	4.0
Release Date:	December 1994
Frequency of Updates:	
Date of First Release:	
Number Sold/Released:	

Pricing:

Single User Price:	$1995 (Full usage)
Site License:	
Multi-Copy Price:	(7+) $1495 (Full usage)
Upgrade Costs:	
Maintenance Price:	

Contact Information:

For vendor: in business since:	1963
For R&D: date research began:	
Address:	41 William Linskey Way Cambridge, MA 02142
Point of Contact:	Simone O'Donoghue
Phone Number:	617-864-8880
Fax Number:	617-864-8884
E-mail Address:	70662.3552@compuserve.com
Electronic Bulletin Board:	
Customer Support :	Todd Sjoblom

Process Technology Areas/Capabilities:

Definition	Modeling	Other: Simulation Software

Intended Application Area:

MIS	Technical	Business/Finance/Economics
Real-Time	Government	Environmental
Manufacturing	Medical	Utilities

Intended Users of Technology/Tool:

Process Engineer	Managers

Methodology Base:

Other: Process Language	System Dynamics

Configurations:

Operating Enviroment:	IBM PC AT or compatible, Windows 3.1, Recommended: Math co-processor and Windows-compatible printer.
Minimum System Requirements:	2 MB RAM, 5 MB disk space

Data Import/Export Information:

Description/Purpose:

Professional DYNAMO 4.0 for Windows (PD4) is a software tool designed for creating models and performing analyses of complex systems such as businesses, markets and economies. PD4 is used in a broad variety of applications by business users. The core capability is to examine behavior of a complex system over time.

Features:
PD4 includes an Editor, Compiler, Simulator, Reporter, Documentor, all within the familiar Windows environment. Additional benefits: Built-in functions, Customized menus, Flexible printing capabilities, User-created macros, ithink/Stella converter, Arrays, Huge capacity allowing large models, and much more.

ProSIM by Knowledge Based Systems, Inc.

Product Information:

Version Number:	2.0
Release Date:	November 1993
Frequency of Updates:	As needed
Date of First Release:	
Number Sold/Released:	

Pricing:

Single User Price:	$5,995
Site License:	(Other pricing information
Multi-Copy Price:	available upon request)
Upgrade Costs:	
Maintenance Price:	

Contact Information:

For vendor: in business since:	1988
For R&D: date research began:	1987
Address:	1500 University Drive East College Station, TX 77840-2335
Point of Contact:	Marketing Department
Phone Number:	409-260-5274
Fax Number:	409-260-1965
E-mail Address:	products@kbsi.com
Electronic BBS:	409-260-4606
Customer Support :	409-260-5274

Process Technology Areas/Capabilities:

Definition Process Examples Modeling
Other: Simulation Generation

Intended Application Area:

Business/Finance Manufacturing Medical

Intended Users of Technology/Tool:

Process Engineer Analysts Other: Simulation Analyst

Methodology Base:

IDEF Behavior-Oriented

Configurations:

Operating Enviroment:	Windows 3.1
Minimum System Requirements:	386, 4 MB memory

Data Import/Export Information:

Formatted text file in/out. Generates simulation code

Description/Purpose:

Complete process capture support with automated generation of simulation models. Supports decomposition of processes and offers multiple representations of processes. Offers integrated object-to-process mapping and state transition modeling capabilities.
Also captures process time and resource utilization.

ProSLCSE by International Software Systems, Inc.

Product Information:

Version Number:	3.5
Release Date:	1994
Frequency of Updates:	Annual
Date of First Release:	May 1993
Number Sold/Released:	75

Pricing:

Single User Price:	ProBuilder: $3,000
	ProSimulator: $5,000
	Both: $7,000
	GSA: Available

Contact Information:

For vendor: in business since:	1977
For R&D: date research began:	
Address:	9430 Research Blvd., Bldg. IV-250
	Austin, TX 78759
Point of Contact:	Stephanie Yeh
Phone Number:	512-338-4774 ext. 702
Fax Number:	512-338-4704
E-mail Address:	syeh@issi.com
Electronic Bulletin Board:	
Customer Support :	512-338-4774 ext. 745

Process Technology Areas/Capabilities:

Definition Process Examples Modeling
Other: Process Simulation

Intended Application Area:

All

Intended Users of Technology/Tool:

Process Engineer Software Developers Software Managers Analysts
Quality Assurance Configuration Managers

Methodology Base:

Methodology Independent Other: Graphical Process Language

Configurations:

Operating Enviroment:	SUN OS/Solaris
Minimum System Requirements:	Sparc 1, 50 MB disk space, 24 MB RAM, Graphics Monitor

Data Import/Export Information:

None at present

Description/Purpose:

ProBUILDER is a graphical process definition tool that allows you to capture and fine tune your organization's process and infrastructure. Process definitions include activities, inputs, outputs, and resources assigned to activities. Activities are connected to one another through data connection, temporal (e.g., finish-start) connections, and logical (and/or) connections. Complex logic such as rework loops can be expressed.

ProSIMULATOR allows you to simulate the execution of processes. The simulation runs directly on the processes defined in ProBUILDER. This allows the user to assess a proposed new process or a changed process in a risk free environment. Cost and time and resource constraints are reported.

*S**4 by MicroWorlds, Inc.*

Product Information:

Version Number:	3.4R
Release Date:	September 94
Frequency of Updates:	Quarterly
Date of First Release:	1/91
Number Sold/Released:	200

Pricing:

Single User Price:	First copy: $4900
Subsequent copies:	$1950
Upgrade Costs:	1st year free
GSA Price:	--------
Maintenance Price:	No charge

Contact Information:

For vendor: in business since:	1988
For R&D: date research began:	
Address:	47 Third St., Suite 200 Cambridge, MA 02141
Point of Contact:	Elizabeth Peterson
Phone Number:	617-225-0025
Fax Number:	617-225-0028
E-mail Address:	mworlds@aol.com
Electronic Bulletin Board:	none
Customer Support :	617-225-0025

Process Technology Areas/Capabilities:

Modeling	Process Examples	Process-Driven Framework
Metrics Support	Asset Library	

Intended Application Area:

Technical	Real-time
MIS	Project Management/Strategy

Intended Users of Technology/Tool:

Model Developers Software Managers

Methodology Base:

System Dynamics Behavior-oriented

Configurations:

Operating Enviroment:	Mac OS
Minimum System Requirements:	Mac II or better with 2 MB

Data Import/Export Information:

Import & export text files and spreadsheet data; connect to HyperCard, SuperCard, Wingz, etc.

Description/Purpose:

Tool takes as input a description of a system expressed graphically (using STELLA) or using the MicroWorlds simulation language. S**4 allows the user to create his own interface. In addition, S**4 lets the modeler examine the simulation by allowing him to interactively walk his way down into the model.

STSC Process Technologies Product Sheet Version 2.0c

Statemate by I-Logix, Inc.

Product Information:

Version Number:	5.3
Release Date:	July 94
Frequency of Updates:	2/year
Date of First Release:	1987
Number Sold/Released:	1500

Pricing:

Single User Price:
Site License:
Multi-Copy Price:
Upgrade Costs:
Maintenance Price:

Contact Information:

For vendor: in business since: 1986
For R&D: date research began: 1983

Address: Three Riverside Drive
Andover Research Park
Andover, MA 01810

Point of Contact: Thomas M. McLaughlin
Phone Number: 408-562-6146
Fax Number: 408-562-6175
E-mail Address: tom@ilogix.com
Electronic Bulletin Board:
Customer Support : 508-682-4884

Process Technology Areas/Capabilities:

Definition	Process-Driven SEE	Process-Supported-SEE
Process Examples	Process-Driven Framework	Modeling
Enactment	Configuration Managment	

Intended Application Area:

Embedded System Development	Technical	Real-Time
Scientific Development	Government	Environmental
Manufacturing	Medical	

Intended Users of Technology/Tool:

Process Engineer	Software Developers	Software Managers
Quality Assurance	End Users	

Methodology Base:

Entity Process Modeling	Methodology Independent
Behavior-Oriented	State Transition Diagrams
Other : Statechart/Statemate Language	

Configurations:

Operating Enviroment:	SUN, HP, IBM, RS6000, Apollo, DEC(BMS, ULTRIX)
Minimum System Requirements:	16MB Mininum

Data Import/Export Information:

ASCII, CDIF Standard

Description/Purpose:

Statemate allows for the graphical description and analysis of any system, whether it is a process, computer, or an ASIC. Statemate has been used for process modeling successfully at SEI, IBM, Lockheed, Motorola, and

Synergy by CASE Methods Development Corp.

Product Information:

Version Number:	V 3.0
Release Date:	April 1995
Frequency of Updates:	Annual
Date of First Release:	August 1991
Number Sold/Released:	

Pricing:

Single User Price:	Contact Vendor for
Site License:	pricing information
Multi-Copy Price:	
Upgrade Costs:	
Maintenance Price:	

Contact Information:

For vendor: in business since:	1988
For R&D: date research began:	1988
Address:	100 North Central Expressway Suite 710 Richardson, TX 75080
Point of Contact:	
Phone Number:	214-437-9700
Fax Number:	214-644-8175
E-mail Address:	
Electronic Bulletin Board:	
Customer Support :	214-644-8173

Process Technology Areas/Capabilities:

Definition	Process Examples	Process-Driven SEE	Enactment
Asset Library	Process-Driven Framework	Problem Tracking	Modeling
Metric Support	Process-Supported-SEE	Configuration Managment	

Other: Resource Management and Time Reporting

Intended Application Area:

All

Intended Users of Technology/Tool:

All

Methodology Base:

Structured Analysis	Entity Process Modeling	IDEF
Methodology Independent	Object Oriented	Behavior-Oriented
State Transition Diagrams	E-R Model	Data Model Diagrams

Configurations:

Operating Enviroment:	Windows 3.x
Minimum System Requirements:	8 MB on Client with 20 MB hard disk space 16MB on Server with 50 MB hard disk space

Data Import/Export Information:

Export and import methodology and standards text infromation
Export and Import WBS, resources and work effort including support for MS Project

Description/Purpose:

Product is primarily designed to improve the development process used for the delivery of application systems. The focus is on quality, team communications and collaboration, and refinement of process definitions, standards and procedures. It provides a fully integrated Process Management Environment.

TemPRO™ by Software Consultants, Int., Ltd.

Product Information:

Version Number:	2.60
Release Date:	March 95
Frequency of Updates:	4-6 Months
Date of First Release:	1991
Number Sold/Released:	>100

Pricing:

Single User Price:	$4,995
Site License:	Negotiable
Multi-Copy Price:	Call vendor for details
Upgrade Costs:	Free during first year.
Maintenance Price:	$1,250

Contact Information:

For vendor: in business since:	1982
For R&D: date research began:	1987
Address:	13812 SE 240th Street Kent, WA 98042-3321
Point of Contact:	Lawrence Peters
Phone Number:	206-631-4212
Fax Number:	206-631-2328
E-mail Address:	scll@interserv.com
Electronic Bulletin Board:	none
Customer Support :	206-631-4212

Process Technology Areas/Capabilities:

Process Examples | Modeling | Process-Driven Framework

Intended Application Area:

MIS	Embedded Systems Development	Real-Time
Manufacturing	Scientific Development	Transaction Processing
Government	Business/Finance	

Intended Users of Technology/Tool:

Process Engineer	Software Developers	Software Managers	Analysts
End Users	Others: Process Owners		

Methodology Base:

IDEF | Petri Nets | Object Oriented

Configurations:

Operating Enviroment:	IBM-PC and compatibles
Minimum System Requirements:	486 DX processor, 4 MB RAM (8 recommended), VGA (color recommended), 3 MB hard disk space, MS/DOS, Windows 3.1 or better, mouse or other pointing device.

Data Import/Export Information:

Import: From other copies of TemPRO; Next release will accept input from some IDEF products.
Export: File formats for inclusion in other PC based software products including most word processors, spreadsheets and other tools. The export formats include RTF, comma delimited and tab delimited, all are user selectable.

Description/Purpose:

TemPRO is intended for use by managers who must control and refine processes ranging from software development to parts manufacturing. Although it provides a complete and unique complement of simulation capabilities including the use of statistical distributions, priorities, preemption and other features normally associated with simulation, users can develop sophisticated models and execute them without writing a single equation or line of pseudocode In addition, TemPRO enables users to model activities which have multiple behaviors and multiple outcomes. It includes complete text processing capability and performs a broad range of analyses to assist users in attaining goals related to timing, policy violations, safety/security issues and others.

WizdomWorks! For Windows by Wizdom Systems, Inc.

Product Information:

Version Number:	2.0
Release Date:	March 1, 1995
Frequency of Updates:	Quarterly
Date of First Release:	Windows '93, DOS '87
Number Sold/Released:	~750

Pricing:

Single User :	$6795
Site License:	Call for quote
Multi-Copy :	Call for quote
Upgrade Costs:	Upgrade include in Maintenance
Maintenance :	90 day free; 15% of list per year.

Contact Information:

For vendor: in business since:	1986
For R&D: date research began:	1986
Address:	1300 Iroquois Ave. Naperville, IL 60563
Point of Contact:	Rita Fecney
Phone Number:	708-357-3000
Fax Number:	708-357-3057
E-mail Address:	rita@wizdom.com
Electronic Bulletin Board:	
Customer Support :	800-494-9366

Process Technology Areas/Capabilities:

Definition	Process Examples	Process-Driven Framework	Asset Library
Modeling	Configuration Managment	Metric Support	

Intended Application Area:

MIS	Technical	Real-Time	Transaction Processing
Government	Environmental	Business/Finance	Manufacturing
Medical	Utilities	Other: Business Process Reengineering	

Intended Users of Technology/Tool:

Process Engineer	Software Managers		
Analysts	Software Developers	Quality Assurance	End Users

Methodology Base:

Rule-Based	Structured Analysis	IDEF
Object Oriented	E-R Model	Data Model Diagrams

Configurations:

Operating Enviroment:	Windows 3.1 or better IBM PC/AT and 100% compatible PCs
Minimum System Requirements:	4MB hard drive space, 4 MB memory, 2MB permanent swap file

Data Import/Export Information:

IDL, dBASE compatible models
Export: SQL, .DIF, .TXT, .ACT, .QFD, .LST, etc...

Description/Purpose:

WizdomWorks!™ for Windows Business Process Reengineering Toolset

° ProcessWorks! Create activity models to visualize current processes and understand business requirements.

° WizdomWorks! Analysis Tools. Perform Cost, Flow, Lead-Time, Simulation, and Quality Analysis.

° DataWorks! Create data models of entities, attributes, and relationships. Export SQL Code into lower CASE tools for data table generation.

STSC Process Technologies Product Sheet Version 2.0c

WorkFlow Analyzer by Meta Software Corp

Product Information:

Version Number:	1.5
Release Date:	Oct. 1993
Frequency of Updates:	
Date of First Release:	Oct. 1993
Number Sold/Released:	30-50+

Pricing:

Single User Price:	$34,995
Site License:	Call for info
Multi-Copy Price:	Call for info
Upgrade Costs:	Inc. in maintenance
GSA Price:	quoted upon request
Maintenance Price:	$5000/yr (1st yr incl)

Contact Information:

In business since:	December 1985
Date research began:	1986
Address:	125 Cambridge Park Drive Cambridge, MA 02140
Phone Number:	(617)576-6920
Point of Contact:	Lou Zand
Phone Number:	617-876-9725
Fax Number:	617-661-2008
E-mail Address:	seltzer@metasoft.com
Electronic Bulletin Board:	
Customer Support :	

Process Technology Areas/Capabilities:

Definition Process Examples Workflow Modeling
Business Process Redesign

Intended Application Area:

Business Process Redesign Workflow

Intended Users of Technology/Tool:

Software Developers Software Managers Process Engineers

Methodology Base:

IDEF0 Process Modeling
Colored Petri Nets (transparent to user)

Configurations:

Operating Enviroment:	Mac, X-Windows (Sun Solaris, HPUX)
Minimum System Requirements:	varies depending on platform

Data Import/Export Information:

ASCII, Spreadsheet

Description/Purpose:

The WorkFlow Analyzer is desktop software designed to help organizations re-engineer their business processes to achieve dramatically improved performance in costs, quality, service and speed. The WorkFlow Analyzer toolset allows business users to develop graphical models of existing workflows, which are then automatically translated into dynamic simulation models for the identification of bottlenecks, resources utilization, and process costs. Models can be tested under differing "what if" scenarios to show the results of proposed business changes. WorkFlow Analyzer reporting includes both integrated spreadsheets, and easy-to-interpret graphs.

Appendix C - Process Technology Product Critiques

No new critiques were available at publishing time. If you are interested in getting the old critiques or checking for more recent critiques, please send an email request to process@software.hill.af.mil. If you are interested in providing a critique for a tool that you have used, please use the sample product critique. Send the critique to Software Technology Support Center, Process Team, OO-ALC/TISE - Bldg 100, 7278 Fourth Street, Hill AFB UT 84056-5205.

Sample Product Critique Sheet

Reviewer's Name:_____
Company Name: _____
Position/Title: _____
Main Duties: _____
_____
Tool used for software process: yes/no
Years of software experience: _____
Years of experience with the tool: _____
Last time tool used:
Currently **6 months** **1 year** **>1 year**
I am a software:
Manager **Engineer** **Programmer** **Novice**
Date of Review: _____

Tool Name: _____
Vendor: _____
Version: _____
Hardware platform: _____
Operating system: _____
Memory used: _____
Disk space used: _____
Enhancements: _____
(accelerator, large monitor, graphics card, etc.)
Overall impression of the tool?
Excellent **Good** **Fair** **Poor**
Quality of vendor support?
Excellent **Good** **Fair** **Poor** **Unknown**

Project Information:

Notable Strength(s) of the Tool:

Notable Weakness(es) of the Tool:

Advice for Potential Users of Method/Tool:

Vendor Response:

STSC Product Critique Sheet Version 2.0e

(This page is intentionally left blank)

Appendix E - IDEF Training Sheets

Many of the STSC's customers were using, or were interested in using, the IDEF technology. We thought it would be extremely important to aid them in finding proper training for the different levels of IDEF usage that exist. All too often tools are bought and never used because proper training was never acquired. We had a goal of assisting organizations learn about process tools, but additionally give them information on where to look for training to get them up and working in the targeted methodology area.

To ensure correctness/timeliness of the following information, be sure and contact the company of interest. In addition, the STSC can be contacted for new/updated IDEF training information by calling their customer service department at 801-777-7703 or DSN 777-7703, FAX to 801-777-8069 or DSN 777-8069, or email to process@software.hill.af.mil.

IDEF Training at D. Appleton Company, Inc.

Company: D. Appleton Company, Inc.	**Phone:** 214-869-1066 **Fax:** 214-869-1099
Address: 222 W. Las Colinas Blvd., Suite 1141 Irving, TX 75039	**Contact:** Mark Shipman SW Product Manager Phil Shinar Training Director 310-374-3939 (CA Office)
Number of IDEF Courses Offered: Two (2)	

COURSE 1 of 2: Modeling for Managers Seminar [Intro./Readers Course]

Abstract:
D. Appleton recommends this seminar in order to minimize the effects of the "baptism of fire" that middle managers experience upon being assigned information planning and implementation projects. It will give an understanding of the rationale behind using process and data models in the design and implementation of information systems as well as a working knowledge of the tools and methods necessary for effective modeling. The student will be able to read high-level IDEF models at the end of the course. This seminar is also appropriate for business practitioners who will review and validate the models

What you will learn:
- How to read high-level IDEF models
- Working knowledge of the IDEF tools and methods.

 # Days: One (1)
 # Students: maximum of 15 students
Cost (minus expenses): $295 per student
$3000 as an on-site course
Course Location: Scheduled at various sites in U.S. Courses also available on site.

COURSE 2 of 2: Process & Data Modeling Workshop Using IDEF Techniques [Authors Course]

Abstract:
This workshop demystifies the modeling process. The workshop, driven by case studies that use IDEF Modeling Techniques, enables you to design and implement more efficient and effective automated services for your organization. This workshop provides a non-threatening environment where end-users and data processing professionals together build and critique process and data models, stressing the discovery and documentation of business rules implicit in the organization. Through a series of lectures, readings, exercises, and team case studies, the student will gain a working knowledge of process modeling (IDEF0) and data modeling (IDEF1X)

What you will learn:
- How to build + critique process + data models
- Working knowledge of IDEF0 and IDEF1X

 # Days: Four (4)
 # Students: maximum of 15 students
Cost (minus expenses): $995 per student as public course
$10,500 as on on-site course
Course Location: Scheduled at various sites in U.S. Courses also available on site.

NOTES:

Tools/Platforms Used:
D. Appleton tries to keep their courses tool independent (they are sensitive to getting caught up in computer/tool logistics rather than concentrating on the course), but when tools come into play, they use their IDEF Leverage for IDEF0 and IDEF1x, and their ModelPro tool for IDEF1x work. Computers must be supplied by client firm.

Materials Used/Kept by Students:
Book following along with the modules studied in the class.

IDEF1/IDEF1X Training Offered?:
IDEF1X training is incorporated into the 4 day course, but IDEF1 is not addressed by D. Appleton.

Many Exercises/Hands On?:
Yes. The course involves a series of exercises and team case studies.

Can Course be Tailored to SW Process Modeling?:
While D. Appleton has a lot of experience in a wide range of modeling areas, their target market is primarily data modeling applications.

Misc.::
- D. Appleton also offers several other workshops & seminars such as Advanced Data Modeling, Enterprise Integration, Process and Data Modeling Techniques, Process Improvement Methodology, and many more.
- Call 800-322-6614 for more information on D. Appleton IDEF training options.

IDEF Training at Eclectic Solutions

Company: Eclectic Solutions	**Phone:** 619-454-5781 **Fax:** 619-459-3025
Address: 5580 La Jolla Boulevard Suite 130 La Jolla, CA 92037-7692	**Contact:** Pat Duran or Al Irvine
Number of IDEF Courses Offered: Three (3)	

COURSE 1 of 3: IDEF0 Overview [Intro. Course]

Abstract:
This course is a management overview

What you will learn:

- General IDEF0 description
- IDEF0 Applicability
- IDEF0 Resource requirements
- Comparison to other approaches

 # Days: one (1)
 # Students: No limit
Cost (minus expenses): $2500
Course Location: Usually customer site

COURSE 2 of 3: 3-Day Intensive IDEF0 Authoring Course [Author's Course]

Abstract:
Full IDEF0 Author's course

What you will learn:

- Interviewing
- Model Authoring
- Commenting + Responding
- Project Control
- Use of Automated IDEF0 Modeling Environment
- Two Case Studies

 # Days: three (3)
 # Students: Maximum of eight (8) students
Cost (minus expenses): 1-4 students $5000; 5-8 students $7000
Course Location: Usually customer site

COURSE 3 of 3: 5-Day IDEF0 Authoring Course [Author's Course]

Abstract: Full IDEF0 Author's course

What you will learn:

- Interviewing
- Model Authoring
- Commenting + Responding
- Project Control
- Use of Automated IDEF0 Modeling Environment
- Two Case Studies

 # Days: five (5)
 # Students: Maximum of twenty (20) students
Cost (minus expenses): 1-12 students $10,000 ; 13-20 students $15,000
Course Location: Usually customer site

NOTES:

Tools/Platforms Used:
Although it is not required, Eclectic Solutions recommends that their IDEF0 modeling product, Authormate™, be used in both the 3-Day and the 5-Day courses. Since Eclectic Solutions are not as familiar with other tools, they don't feel as comfortable with knowing the impact it will have on the class, how robust it is, etc.

Materials Used/Kept by Students:
Students use and keep a book of slides as well as a text on SADT, both provided by the instructor.

IDEF1/IDEF1X Training Offered?:
No... Eclectic Solutions concentrates on IDEF0 training/products only.

Many Exercises/Hands On?:
Yes... There are hands on exercises in class, as well as evening assignments.

Can Course be Tailored to SW Process Modeling?:
Yes. The second of the two case studies examined in the course actually looks at a SW process model.

Misc.:
• The client provides the computers. Eclectic will provide their software for use in the course.
• Other courses offered by Eclectic: Structured Analysis, Structured Design, and Information Modeling

IDEF Training at Knowledge Based Systems, Inc.

Company: Knowledge Based Systems, Inc..	**Phone:** 409-696-7979 **Fax:** 409-696-7277 **BBS:** 409-696-7055
Address: 2746 Longmire College Station, TX 77845-5424	**Contact:** David N. Rice : Project Manager - IDEF Tools Mike Graul : Training Staff
Number of IDEF Courses Offered: Five (5)	

COURSE 1 of 5: Complete IDEF0 Course [Author's Course]

Abstract:
KBSI provides you with the competence needed to effectively apply IDEF0 modeling methodologies.

What you will learn:
- A detailed explanation of the IDEF0 methodology/framework
- Usage through extensive practical exercises involving hands-on experience IDEF0
- An introduction to computer-aided modeling through the use of their IDEF0 tool, AI0.

 # Days: flexible
 # Students: Prices quoted for ten students. For each additional student, add $200.
Cost (minus expenses): $5500
Course Location: Customers site

COURSE 2 of 5: Complete AI0 Course [KBSI's Tool Course]

Abstract:
KBSI has acquired extensive knowledge of the modeling process through the development of their automated IDEF tools. These tools eliminate the tedious aspects of model development and allow the modeler to concentrate on arranging efficiently structured systems. By incorporating these automated tools into the training course, the student can concentrate on the methodology, due to the elimination of laborious hand drawing of models.

What you will learn:
- Using KBSI's AI0 tool to develop IDEF0 models.

 # Days: flexible
 # Students: Prices quoted for ten students. For each additional student, add $200.
Cost (minus expenses): $5500
Course Location: Customers site

COURSE 3 of 5: Complete IDEF0 and AI0 Course [Authoring Course]

Abstract:
KBSI integrates their AI0 tool into their IDEF0 author's course for this comprehensive authoring course.

What you will learn:
- A detailed explanation of the IDEF0 methodology/framework
- Usage through extensive practical exercises involving hands-on experience IDEF0
- An in depth seminar in computer-aided modeling through the use of KBSI's IDEF0 tool, AI0.

 # Days: flexible
 # Students: Prices quoted for ten students. For each additional student, add $200.
Cost (minus expenses): $5900
Course Location: Customers site

COURSE 4 of 5: Complete IDEF1 Course [Authoring Course]

 # Days: flexible
 # Students: Prices quoted for ten students. For each additional student, add $200.
Cost (minus expenses): $5900
Course Location: Customers site

COURSE 5 of 5: Complete IDEF1X Course [Authoring Course]

 # Days: flexible
 # Students: Prices quoted for ten students. For each additional student, add $200.
Cost (minus expenses): $5900
Course Location: Customers site

NOTES:

Tools/Platforms Used:
KBSI offers generic IDEF training as well as courses specific to their IDEF tools and also combinations of the two.

Materials Used/Kept by Students:
They provide all the materials needed for the course. Students can keep most of the materials used.

IDEF1/IDEF1X Training Offered?:
Yes....Both courses are priced at $5900 (see above)

Many Exercises/Hands On?:
They advertise "Extensive practical exercises" in the client's chosen application area.

Can Course be Tailored to SW Process Modeling?:
KBSI is very flexible and has a large library of models already built. While KBSI deals with mostly manufacturing clients, SW Process modeling can be handled by them too.

Misc.:
- KBSI also has courses in IDEF3, IDEF4, IDEF5 (each are $7000), and Systems Development Frameworks.
- If KBSI's standard courses aren't exactly what you need they say " We send in our experts early to gain an understanding of your company and of your special problem types. From this information, we develop a training course that takes into account your company's operational procedures and addresses the problems to be solved."
- They seem very willing to work with the customer to tailor their courses to specific needs.

IDEF Training at Lipka Software Engineering, Inc.

Company: Lipka Software Engineering, Inc.	**Phone:** 617-965-0911 **Fax:** 617-965-0911 (same number)
Address: 29 Chatham Road Newton, MA 02161	**Contact:** Stephen E. Lipka, Ph.D. President
Number of IDEF Courses Offered: Four (4)	

COURSE 1 of 4 IDEF0 Readers Course (Course #: GEN-1) [Reader's Course]

Abstract:
This course, lasting approximately one hour, introduces the viewer to IDEF0 activity models and enables them to read diagrams and models for content. It is intended for those who with to understand model content, follow modeling progress, or participate as interested parties in projects using IDEF0 activity models. The course is intended for general audiences.

What you will learn:
- An introduction to IDEF0 activity models.
- To read IDEF0 models for content

 # Days: One (1) Hour
 # Students: flexible
Cost (minus expenses): negotiated
Course Location: Customers Site.

COURSE 2 of 4 IDEF0 Commenters Course (Course #: GEN-2) [Commenter's Course]

Abstract:
This course, lasting approximately one hour, builds on the Readers' Course. It shows the viewer how to read the models critically and comment in a structured way to help the model's authors improve it. The course is intended for general audiences.

What you will learn:
- An introduction to IDEF0 activity models.
- To read IDEF0 models for content
- To read IDEF0 models with a critical eye, and comment intelligently

 # Days: One (1) Hour
 # Students: flexible
Cost (minus expenses): negotiated
Course Location: Customers Site.

COURSE 3 of 4 IDEF0 Modeling Course (Course #: MOD-1) [Author's Course]

Abstract:
This five day course covers principles of activity modeling using IDEF0, particularly for use in enterprise modeling and system definition. The course covers model objectives, syntax, semantics, model quality, dynamics, mechanisms, review practices, knowledge acquisition, and presentation of models. The fifth day includes time for a practical exercise related to the students' business. The course is highly technical and is oriented toward analysts and designers.

What you will learn:

- How to build IDEF0 models
- How to gather and extract information needed for your models
- Review practices
- How to apply what you've learned to a real life situation within your organization

 # Days: Five (5)
 # Students: maximum of 10 students (will discuss having more students)
Cost (minus expenses): $10,000
Course Location: Customers Site.

COURSE 4 of 4 Advanced IDEF0 Modeling Course (Course #: MOD-2) [Advanced Author's Course]

Abstract:
This four day course is oriented toward analysts and designers who have attended an introductory course with one to two days of IDEF0. As with the five day course, this workshop covers principles of activity modeling using IDEF0, particularly for use in enterprise modeling and system definition. The emphasis, however, is on the advanced concepts, presented through a larger number of exercises. The course covers model objectives (particularly for As-Is and To-Be business process models), model quality, dynamics, mechanisms (including their use for showing organization and information systems), multiple model structures, review practices, knowledge acquisition, presentation of models, and use of the models for gathering costing and economic information. The fourth day includes time for a practical exercise related to the students' problem. Participants are expected to have knowledge of IDEF0 diagram and model syntax and semantics and are expected to have developed IDEF0 models. Refresher material will be presented as needed.

What you will learn:

- How to build IDEF0 models
- How to gather and extract information needed for your models
- Review practices
- How to apply what you've learned to a real life situation within your organization
- More in depth work on examples

 # Days: Four (4)
 # Students: maximum of 10 students (will discuss having more students)
Cost (minus expenses): $8,000
Course Location: Customers Site.

NOTES:

Tools/Platforms Used:
Flexible. If working with a modeling tool is desired (this is not a requirement), Eclectic Solution's Authormate and Meta's Design/IDEF tools have been used in Mr. Lipka's courses.

Materials Used/Kept by Students:
A IDEF course book (containing all slides used in course), a set of hand-out exercises (copywritten), and workforms (public domain) to be used.

IDEF1/IDEF1X Training Offered?:
Mr. Lipka offers a course in information modeling which covers IDEF1 and IDEF1X.

Many Exercises/Hands On?:
There are exercises given, which will be reviewed that night by the instructor, to allow feedback the next day. Also, time is allotted in the last day to work specifically on the customer's chosen application.

Can Course be Tailored to SW Process Modeling?:
Yes. Mr. Lipka has experience in SW process modeling using IDEF and will be happy to include this information as well as show SW process examples. However, preliminary IDEF techniques will be taught first. This prevents people from getting bogged down in discussions about the content of the models as opposed to the techniques used to build them.

Misc.:
- References can be provided.
- Customer supplies the computer and software resources for the course when tools are used.
- Often hired as a consultant for SofTech
- Was team leader for SofTech on the first IDEF CASE tool.
- Developer of the public domain courses on reading and commenting, available through STSC.

IDEF Training at Meta Software Corporation

Company: Meta Software Corporation	**Phone:** 617-576-6920 800-227-4106 **Fax:** 617-576-0519
Address: 125 Cambridge Park Drive Cambridge, MA 02140	**Contact:** Bob Seltzer / Lou Zand
Number of IDEF Courses Offered: Two (2)	

COURSE 1 of 2: Business Process Modeling [Intro. Course]

Abstract:
The purpose of this course is to produce capable modelers who can use Design/IDEF to create effective business process models.

What you will learn:

- How to use the basic IDEF constructs.
- How to use the Design/IDEF tool
- How to set-up IDEF models for activity-based costing (ABC)
- How to set-up IDEF models for simulation.
- How to connect your IDEF models to other tools.

 # Days: One (1)
Cost (minus expenses): $500. 15% discount for two or more people from the same company.
Course Location: Course at Meta Software. Custom courses at the customer site are available.

COURSE 2 of 2: Business Process Analysis [Readers/Users Course]

Abstract:
The purpose of this course is to provide business modelers with a foundation to analyze specific business problems, translate them into effective behavioral models, and deliver measurable results.

What you will learn:

- How to translate IDEF models into CPN simulation models.
- How to use the Design/CPN simulation tool.
- How to perform cost/benefits analysis
- How to produce easy-to-understand graphic presentations.

 # Days: Two (2)
Cost (minus expenses): $1000 15% discount for two or more people from the same company.
Course Location: Course at Meta Software. Custom courses at the customer site are available.

NOTES:

Tools/Platforms Used:
Meta's tools, Design/IDEF and Design/CPN, are used in their courses.

IDEF1/IDEF1X Training Offered?:
No. IDEF1 + IDEF1X are not covered.

Many Exercises/Hands On?:
Yes. Using Meta Software's Design/IDEF tool is a major emphasis of the class.

Can Course be Tailored to SW Process Modeling?:
No. Meta Software works primarily in the business process re-design arena.

Misc.:
- The two courses together cost $1250.
- Meta Software offers consulting services, but they are not really in the IDEF training business, even though they offer some courses at their site from time to time. They often recommend other training options to their customers.

IDEF Training at New England Business Consultants

Company: New Eng. Business Consultants	**Phone:** 508-794-0375 **Fax:** 508-685-3719
Address: 61 Elm Street, Suite 100 Methuen, MA 01844	**Contact:** Daniel E. Thornhill
Number of IDEF Courses Offered: Twelve (12)	

COURSE 1 of 12: IDEF0 Executive Overview # NIE-10G [Overview Course]

Abstract:
In this high-level course, one day is spent familiarizing students with IDEF0 concepts as well as why IDEF0 is important. Not a model developer's course.

What you will learn:
- Why IDEF0 is important
- How IDEF0 can be best used
- High-level view of IDEF0 concepts

 # Days: One (1)
Cost (minus expenses): $2000
Course Location: At customer provided facility.

COURSE 2 of 12: IDEF0 Management Course #NIM-01D [Overview Course]

Cost (minus expenses): $2500
Course Location: At customer provided facility.

COURSE 3 of 12: IDEF0 Management Course & Workshop #NIS-11E [Overview & Workshop Course]

What you will learn:
- Basic management overview course with a workshop in which the customer's specific area of interest in examined.

Cost (minus expenses): $5000
Course Location: At customer provided facility.

COURSE 4 of 12: IDEF0 Reader Course #NIR-02J [Reader's Course]

What you will learn:
- Full IDEF0 Model Syntax
- How to correctly read and understand IDEF0 models

Cost (minus expenses): $500
Course Location: At customer provided facility.

COURSE 5 of 12: IDEF0 Reviewer Course #NIC-03B [Reader/Reviewer Course]

What you will learn:
- How to correctly read and understand IDEF0 models
- Make corrections and comments on IDEF0 models

Cost (minus expenses): $1000
Course Location: At customer provided facility.

COURSE 6 of 12: IDEF0 Author Course #NIA-04M [Author's Course]

What you will learn:
- Management techniques for projects utilizing IDEF0.

 # Students: Max. of 20 students
Cost (minus expenses): $8,000 up to 10 students, $750 for each additional, up to 20 students
Course Location: At customer provided facility.

COURSE 7 of 2: IDEF0 Author Course and Modeling Workshop #NII-05P [Author's Course & Workshop]

Abstract:
Lectures and an integrated example present IDEF0 fundamentals. A "standard" workshop provides group practice after presentation of each concept. A "tailored" workshop provides group and individual application of the concepts to develop an IDEF0 model of some aspect of the customer's project or company, Instructors give careful attention to individual work. Outside reading and homework assignments provide reinforcement and practice.

What you will learn:
- IDEF0 background + syntax
- Modeling procedures and information gathering
- Developing complete models, text, glossaries, and figures
- Model review, validation, and revision

 # Days: Five (5)
 # Students: Max. of 20 students
Cost (minus expenses): $12,000 up to 10 students. $1,000 for each additional, up to 20 students.
Course Location: At customer provided facility

COURSE 8 of 12: IDEF0 Project Workshop #NIP-06C [Project Workshop Course]

Cost (minus expenses): $5000
Course Location: At customer provided facility.

COURSE 9 of 12: Advanced IDEF0 Author Course #NIF-07A [Author's Course]

What you will learn:
- Advanced techniques and concepts of IDEF0 modeling

Cost (minus expenses): $6000
Course Location: At customer provided facility.

COURSE 10 of 12: Advanced IDEF0 Author Course and Project Workshop #NIG-08L
[Author's Course and Project Workshop]

What you will learn:
- Advanced techniques and concepts of IDEF modeling
- Your specific case is examined and discussed.

Cost (minus expenses): $10,000
Course Location: At customer provided facility.

COURSE 11 of 12: IDEF Project Librarian Course #NIL-09S [Librarian Course]

What you will learn:
- Issues important to those who will be keeping track of models produced/shared will be discussed

Cost (minus expenses): $500
Course Location: At customer provided facility.

COURSE 12 of 12: IDEF1X Data Modeling Course #NID-12A [Author's Course]

What you will learn:
- Syntax, concepts, and issues of IDEF1X modeling

Cost (minus expenses): $8000
Course Location: At customer provided facility.

NOTES:

Tools/Platforms Used:
Do not concentrate on tools as much as the methodology so that students will not get caught in issues of tool operation. However, NEBC will incorporate customer tools into courses if that is desired.

Materials Used/Kept by Students:
- Course workbook with copies of all slides
- SADT textbook by Marca and McGowan
- Custom IDEF mouse pad
- IDEF template, diagram pad, forms, colored pens, and other supplies
- Sample models and other handouts

IDEF1/IDEF1X Training Offered?:
One course on IDEF1X modeling is offered. However, most of their courses are designed around IDEF0.

Many Exercises/Hands On?:
Yes. Exercises and Homework are an integral part of the class.

Can Course be Tailored to SW Process Modeling?:
Their courses are built around business process modeling, rather than SW Process Modeling

MISC:
- Dan was involved in the development of training materials for SofTech and is often hired as a consultant by SofTech.
- Willing to use customer-focused case examples in class for discussion/review.

IDEF Training at Productivity Solutions

Company: Productivity Solutions (PS)	**Phone:** 401-847-8875 **Fax:**
Address: 30 East Street Newport, RI 02840	**Contact:** John E. Stockenberg, Ph. D. Chief Technical Officer
Number of Courses Offered: One (1)	

COURSE 1 of 1: IDEF0 Activity Modeling Techniques [Author's Course]

Abstract:
This course will include several group and individual exercises designed to demonstrate the applicability of IDEF0 techniques to command and control and other embedded real-time system analysis tasks.

What you will learn:

- Intro. to Modeling and IDEF diagram syntax
- Model decomposition and hierarchy
- Creating a Model: context, viewpoint, purpose, interviewing tips, conventions for readability
- Building a Data Dictionary
- How to Review/Comment on a model
- The Author / Reader Cycle
- Using Models for Project Plans
- Mapping to DOD-STD-2167A, MIL-STD-490A, SSS, PIDS, CIDS, SRS

 # Days: Three (3)
 # Students: Up to 20 students
Cost (minus expenses): $1500
Course Location: At customer's site

NOTES:

Tools/Platforms Used:
This course has been taught with students using paper and pencil. John Stockenberg is familiar with Meta Software's Design/IDEF and could include some tool use in the course, but doesn't have past experience doing this.

Materials Used/Kept by Students:
Students use and keep a 150-200 page spiral-bound book of viewgraphs.

IDEF1/IDEF1X Training Offered?: No.

Many Exercises/Hands On?: Paper/pencil examples are worked through, but this course hasn't been taught using computers and software tools.

Can Course be Tailored to SW Process Modeling?:
No. He has worked with people involved in embedded systems and has examples of how to use IDEF as a planning tool, but doesn't have experience teaching SW process modeling.

Misc.:

- Other courses are available to supplement the IDEF0 course. Available topics include behavior modeling, SCR/A-7E/NRL/Parnas design and specification techniques, and Petri net modeling.
- As stated above, John has not taught this course using actual computers/IDEF tools. The customer would have to provide the resources (computers/software) for this to take place.

IDEF Training at Wizdom Systems

Company: Wizdom Systems, Inc.	**Phone:** 708-357-3000 **Fax:** 708-357-3059
Address: 1260 Iroquois Avenue Naperville, IL 60563	**Contact:** Kristy Hanna or Tom Newman
Number of IDEF Courses Offered: Twelve (12)	

COURSE 1 of 4: IDEF0 with IDEFine-0 [Reader's/User's Course]

What you will learn:
- The IDEF0 methodology using Wizdom Systems' tools.

 # Days: Four (4)
 # Students: Maximum of 10
Cost (minus expenses): $12,605 w/ one copy of the IDEFine Family tool suite installed/delivered.
$25,105 w/ four copies of the IDEFine Family tool suite installed/delivered.
Course Location: This course is offered only to on-site client firm only.

COURSE 2 of 4: IDEF1x with IDEFine-1x [Reader's/User's Course]

What you will learn:
- The IDEF1x methodology using Wizdom Systems' tools.

 # Days: Four (4)
 # Students: Maximum of 10
Cost (minus expenses): $11,105 w/ one copy of the IDEFine Family tool suite installed/delivered.
$17,055 w/ four copies of the IDEFine Family tool suite installed/delivered.
Course Location: This course is offered only to on-site client firm only.

COURSE 3 of 4: Advanced IDEF0 & IDEF1x [Author's Course]

What you will learn:
- Advanced concepts of both the IDEF0 and IDEF1x methodologies.

 # Days: Four (4)
 # Students: Maximum of 10
Cost (minus expenses): $800/Person if taken when offered to the public by Wizdom.
$8450 to on-site client firm.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

COURSE 4 of 4: IDEF0 & IDEF1x with IDEFine-0 & 1x [Author's Course]

What you will learn:
- Advanced concepts of both the IDEF0 and IDEF1x methodologies using Wizdom Systems' tools.

 # Days: Five(5)
 # Students: Maximum of 10
Cost (minus expenses): $17,360 w/ one copy of the IDEFine Family tool suite installed/delivered.
$37,360 w/ four copies of the IDEFine Family tool suite installed/delivered.
Course Location: This course is offered only to on-site client firm only.

THE FOLLOWING EIGHT LISTINGS ARE GROUPED UNDER WIZDOM SYSTEM'S *IDEFSource Series* Courses

IDEFSource Course 1 of 8 Introduction to IDEF [Intro Course]

Abstract:
This course is designed for the potential user of IDEF methodologies. Computers are not used in this introductory course.

What you will learn:
- Systems engineering methodologies in perspective
- SADT and IDEF principles
- IDEF applications in manufacturing, software engineering, and business environments
- Students will construct IDEF0 and IDEF1 diagrams

 # Days: Two (2)
 # Students: Maximum of 15
Cost (minus expenses): $550 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSource Course 2 of 8: IDEF modeling of manuf. systems. [Reader's/User's Course]

Abstract:
This course shows how to use IDEF0, IDEF1X, and IDEFcost to plan and implement improvements in manufacturing systems.

What you will learn:
- Project definition and management
- Data collection
- Construction of IDEF0 and IDEF1X models
- Migration from IDEF models to process flow diagrams
- Specification of TO-BE systems architecture with IDEF.

 # Days: Two (2)
 # Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSource Course 3 of 8 Enterprise modeling with IDEF [Reader's/User's Course]

Abstract:
The course shows how IDEF0, IDEF1X, and IDEFcost analysis are used to improve enterprise operations by modeling organizations, their functions, information flows, and interfaces. This is a course for people who want to re-design their organization's business processes, plan information integration, and control change in a turbulent environment.

What you will learn:

- How IDEF modeling fits in with CIM, CASE, simulation, and other information management strategies.
- How to review basic constructs of IDEF0 and IDEF1X
- Using a methodology for using IDEF as the basis for Activity-Based Costing.
- To describe IDEFast and IDEFlow - Wizdom's methodology for IDEF based timeline and process flow analysis.
- How to present a case study of DOD business system integration planning using IDEF.

 # Days: Two (2)
 # Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSource Course 4 of 8: Software Engineering with IDEF [Author's Course]

Abstract:
The use of IDEF in CASE tools offers the opportunity for standardization in front-end software engineering. IDEF is used as a common frame of reference for a systems and database design project.

What you will learn:

- Basics of IDEF0 and IDEF1X
- Fundamentals of Business Process Improvement
- Fundamentals of Data Asset Management
- Introduction to Corporate Information Management
- Creating + refining IDEF1X models,
- Developing TO-BE models using IDEF
- Collecting Data and Managing IDEF Projects
- SW Engineering Basics (system life cycle, issues in analysis, design, prototyping, coding, testing, installation and maintenance. Standards for SW engineering documentation. Role of CASE tools.
- Using IDEF in Software Engineering

 # Days: Two (2)
 # Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSource Course 5 of 8 TQM with IDEF [Reader's/User's Course]

Abstract:
Total Quality management is increasingly a requirement in major DOD and civilian contracts. This course uses IDEF methods to describe the basic re-orientation required for TQM; and to describe the implementation of TQM in operation, marketing, purchasing, human resources, and corporate culture.

 # Days: Two (2)
 # Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSource Course 6 of 8 : Business Process Re-Design w/ IDEF [Reader's/User's Course]

Abstract:
IDEF is used to plan business improvements prior to implementing new policies, procedures, and computer systems. In DOD's Corporate Information Management program, IDEF modeling is the first step in developing new systems. Planners model the way business is done today and use the model to plan improvement, often through a non-computer solution to information problems such as work simplification.

What you will learn:
- How IDEF modeling fits in with CIM, CASE, simulation, and other information management strategies.
- How to review basic constructs of IDEF0 and IDEF1X
- A methodology for using IDEF as the basis for Activity-Based Costing.
- How to present a case study of DOD business system integration planning, using IDEF.

 # Days: Two (2)
 # Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSource Course 7 of 8: Process Flow Modeling w/ IDEF [Reader's/User's Course]

What you will learn:
- Concepts for modeling process flow using the IDEF methodology.

 # Days: Two (2)
 # Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSource Course 8 of 8 Activity Based Costing w/ IDEF [Reader's/User's Course]

What you will learn:
- Concepts of activity based costing using the IDEF methodology.

 # Days: Two (2)
 # Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

NOTES:

Tools/Platforms Used:
These courses are taught using Wizdom System's own IDEFine Family ™ tool suite.

Materials Used/Kept by Students:
A book of slides is used and kept by the students.

IDEF1/IDEF1X Training Offered?:
Many of the courses include IDEF1X training. IDEF1 is not addressed at all.

Many Exercises/Hands On?:
Yes. Each class has a lot of hands-on exercises to be worked through.

Can Course be Tailored to SW Process Modeling?:
The software engineering with IDEF course has a lot of useful information, though it doesn't seem specifically aimed at software process modeling.

Misc:
- Wizdom claims that "virtually any program can be structured to suit the needs of the particular client firm."
- The customer must provide all computers to be used, for all classes, except the Introduction to IDEF course, in which no computers are used.