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PASSPORT TO INFORMATION



*A Directory of Computer &
Data Services Available Through
TYMNET*

INTRODUCTION

This is a directory of Tymnet customers who offer computer and data services through the TYMNET® public data communications network. It includes only subscribers who choose to be listed for public reference. Customers whose facilities are solely for internal use are not included.

The first section, 'TYMNET Subscribers,' lists customers in alphabetical order, with brief descriptions of their organizations and offerings. Each entry includes an address, telephone number, and contact person, and the computers through which the customer's services are provided.

The second and third sections, 'Data Bases Available Through TYMNET' and 'Major Applications/Software Facilities Available Through TYMNET,' serve as quick reference guides to the kinds of information and services offered by TYMNET subscribers. Further information about specific computer services and data bases may be obtained from the respective organizations that provide them.

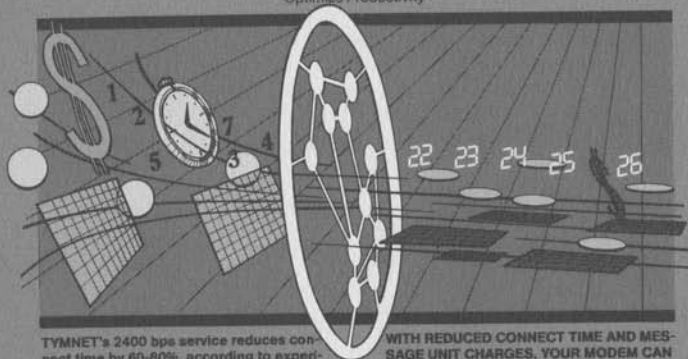
These computer-based services can be accessed with a local telephone call in hundreds of metropolitan areas in the United States and more than 60 foreign countries. In almost all other countries, access is available via Telex. Access to a specific subscriber's system must be authorized by that subscriber.

TYMNET

A McDonnell Douglas Company
2710 Orchard Parkway
San Jose, California 95134

The 2400 bps Difference

Reduce Costs and
Optimize Productivity



TYMNET's 2400 bps service reduces connect time by 60-80%, according to experiments conducted by NEWSNET, the world's largest on-line database of business newsletters. And the longer the session, the greater the proportional savings in time.

Since time is money... **REDUCED CONNECT TIME MEANS REDUCED EXPENSE.**

And that's not all.

TYMNET lets you improve productivity because employees can now spend more time working at their terminals and less time waiting on data transmission.

TYMNET's 2400 bps dialup service supports the new generation of low-cost modems. Lease or purchase them directly from TYMNET, your Single Vendor Solution.

WITH REDUCED CONNECT TIME AND MESSAGE UNIT CHARGES, YOUR MODEM CAN PAY FOR ITSELF...AND LET YOU PERFORM MORE FOR LESS. AND ISN'T THAT WHAT IT'S ALL ABOUT?

Call or write for more information regarding TYMNET's 2400 bps Dialup Access and 2400 bps Modems.



TYMNET, Inc.
2710 Orchard Parkway
San Jose, CA 95134
(408) 946-4900



Custom and Public Data Networks

TYMNET

A McDonnell Douglas Company

COMPUTER SERVICES AVAILABLE THROUGH TYMNET

ABS/DATANETWORK

400 Embassy Square
Louisville, Kentucky 40299

Contact:

Kent Salmon (502) 491-1050
Don Smith (502) 491-1050
Customer Service (800) 626-2358

DATANETWORK is a full service tele-processing utility providing timesharing, transaction processing, and remote batch and interactive remote job entry throughout North America via direct access to large-scale DPS/8 Honeywell Computer System and a Prime 750.

In addition to a comprehensive library of language processors, conversion aids, utility programs, application packages, and data base systems, users are offered total solution approaches for a number of key service problems. The service is available 24 hours a day, 7 days a week, with HOTLINE support through Customer Service. Nationwide toll-free access is provided at 30 and 120 cps and from 2400 to 9600 baud. Standard and guaranteed volume discounts are available.

Computer(s): Honeywell large-scale DPS/8 System
Prime 750

ADP COLLISION ESTIMATING SERVICES

2380 West Winton Avenue
Hayward, California 94545

Contact:

Bo Rothchild (415) 783-4344

On-line collision damage estimating system and other computer services for insurance companies.

Computer(s): IBM compatible

ADVANCED DATA GROUP, INC. (ADG)

20370 Town Center Lane, Suite 255
Cupertino, California 95014

Contact:

Joyce Engberg (408) 446-4346

ADG provides a complete spectrum of time-sharing services, including management consulting, customized programming, and facilities management. Languages supported are BASIC, FORTRAN, COBOL, RPG and SPL in an interactive or batch environment. The data base language IMAGE-QUERY/3000 is also provided.

Software systems offered include financial planning (\$FLOW), field service reporting, and electronic mail (Jenny/3000), and Artificial Intelligence Information Management. Additional services include the One Point™ Electronic Catalog previewing more than 5,500 microsoftware packages.

Computer(s): HP 3000 Series III

AIRLINE TARIFF PUBLISHING COMPANY (ATPCO)

P.O. Box 17415
Dulles International Airport
Washington, D.C. 20041

Contact:

James Taggart (703) 471-7510

ATPCO offers a data base of all current and future airline fares. Coverage includes domestic and international, local and joint fares. ATPCO is the source for the latest in fare information.

Computer(s): IBM 3083

AMHERST ASSOCIATES, INC.

210 Old Farm Road
Amherst, Massachusetts 01002

Contact:

Director of Corporate Marketing (312) 332-0500

Offers an interactive time-shared financial modelling system for the health care industry. Cost and management reporting, budgeting, rate setting, forecasting and analysis, long-range planning, payroll simulation, and cash management are also available.
Computer(s): DEC VAX-11/780

BTI COMPUTER SYSTEMS (BTI)
870 West Maude Avenue
Sunnyvale, California 94086

Contact:
Jon Nickerson (408) 733-1122
Telex:339548

Manufacturers of the BTI 5000 medium-scale interactive timesharing system (over 4,000 installed as of June 1, 1984) and of the new BTI 8000, a 32-bit multiprocessor system that introduces Variable Resource Architecture and state-of-the-art system software. The BTI service computer performs on-line system diagnosis from BTI's national service center. TYMNET service provides demonstration and pre-delivery customer access.

Computer(s): BTI 5000
BTI 8000

BATTELLE MEMORIAL INSTITUTE
Columbus Laboratories
505 King Avenue
Columbus, Ohio 43201

Contact:
Raymond Whyde (614) 424-7169

General purpose timesharing, batch processing, and information services to meet a variety of research, development, and educational needs. Battelle is the world's largest non-profit research institute providing a wide variety of technical capabilities to government and industry. Services include: DM, a three-schema relational-data base management system; BASIS, an information retrieval and analysis service; NUCLEUS, an economic analysis modelling system; and BECUN, an

educational computing network for colleges and high schools. In addition, TYMNET provides researchers access to Battelle computers from locations throughout the world.

Computer(s): CDC Cyber 73
CDC Cyber 74
CDC Cyber 180-855
CDC Cyber 180-815
DEC VAX-11/780 (4)

BIBLIOGRAPHIC RETRIEVAL SERVICES (BRS)

1200 Route 7
Latham, New York 12110

Contact:
BRS Customer Service (518) 783-1161
(800) 833-4707

BRS is a major data base vendor offering more than 60 files, ranging from subjects of general interest to business and technical information. Using powerful BRS/SEARCH software, BRS offers services which include electronic mail. Special services for the home market are also available. Off-line high-speed printing is available with an over-night delivery service.

Computer(s): NAS 9050

BLOODSTOCK RESEARCH INFORMATION SERVICE, INC.
P.O. Box 4097

801 Corporate Drive
Lexington, Kentucky 40504

Contact:
R.H. Gillespie (606) 223-4444
Telex: 510-476-886-3

A general timesharing company specializing in accounting, manufacturing, distribution, and data base management. Specific expertise in the area of large data bases supporting pure-breed registrations, including a data base of over 900,000 thoroughbred horses foaled since 1920 and race records. FORTRAN-BASIC-PLUS supported.
Computer(s): DEC VAX-780

BRADFORD NATIONAL COMPUTER SERVICES

1500 Palisade Avenue
Teaneck, New Jersey 07666

Contact:

Vincent J. Iuzzolino (201) 833-1020

BNCS is a full service information processing center which provides on-line and batch processing, timesharing and professional services, including computer replacement and systems design and development.

Disaster backup is also offered. The company serves engineering firms, health care agencies, manufacturers, retailers, broadcasting firms and the financial services industry.

BNCS offers the first videotex system in a service bureau environment.

Computer(s): IBM System 3033 MVS/OS (1)
IBM 370/158 VM/CMS (1)
Amdahl 5680 MVS/OS (1)

BRIDGE DATA COMPANY

10050 Manchester Road
St. Louis, Missouri 63122

Contact:

James M. Yates (314) 821-5660
(800) 325-DATA

Bridge Data Company provides real time on-line stock, options and commodity market information, as well as news recall and history on stocks, options and commodities. Over-the-counter domestic and foreign securities information is available also.

Bridge provides portfolio evaluation capabilities and an on-line mail facility. Services include information retrieval, securities processing, and securities and technical analysis. Bridge also provides the data base, The Bridge Information System: **BROKERAGE SYSTEM.**

Computer(s): DEC PDP-11/44

BUSINESS INFORMATION SYSTEMS, INC.

747 3rd Avenue
New York, New York 10017

Contact:

Julie Farrell (212) 752-0831

General timesharing service specializing in the development and support of customized software systems.

Computer(s): DECSYSTEM 20 (2)

CCS AUTOMATION SYSTEMS, INC.

101 Continental Blvd, Suite 200
El Segundo, California 90245

Contact:

Jeffery L. McKnight (213) 417-0624

CCS Automation Systems, Inc., a wholly owned subsidiary of Texas Air Corporation, offers fully automated information services to the Airline and Air Transport Industry. CCS provides state-of-the-art automated reservations and passenger processing, flight planning, aviation, weather, communications, business systems and customized software development to over 85 airlines worldwide, through SHARES (Shared Airline Reservation System).

Designed to meet the growing needs of the airline industry, we focus on enhancing our programs to keep our products ahead of the demands of the industry. CCS offers airlines worldwide a cost effective alternative to the high cost of operating an In-House system. Timesharing under the VM/CMS operating system is also offered, and available services include data base management, spreadsheet package, full-color graphics, and most major programming languages.

Computer(s): AMDAHL V7 and V8

CHEMICAL ABSTRACTS SERVICE (CAS)

2540 Olentangy River Road
P.O. Box 3012
Columbus, Ohio 43210

Contact:

Richard T. Kaser (614) 421-3600

A non-profit organization and a division of the American Chemical Society specializing

in abstracting and indexing information from around the world, relating to chemistry and chemical engineering. A staff of 1200 scientists and supporting personnel prepare abstracts of more than 400,000 scientific articles, patents, and reports each year. This information is recorded in a computer data base from which a highly automated processing and publishing system produces "Chemical Abstracts," (a 700-page weekly publication), and a family of allied publications, indexes, microform and computer-searchable information services. CAS directly offers CAS ONLINE, a data base of chemical substance and bibliographic information that includes references to some 6,000,000 documents cited in Chemical Abstracts. CAS ONLINE is now available for searching through STN International, the Scientific and Technical Information Network. STN International is operated by the American Chemical Society in cooperation with other scientific organizations internationally. It provides access to a number of scientific data bases, such as CAS ONLINE and PHYSICS BRIEFS, through a single command language. All the data bases which comprise STN International are now accessible via TYMNET.

Computer(s): IBM System 370/168-3
Attached Processor
IBM System 3081D
DEC PDP-11/34 (4)
DEC PDP-11/40
DEC PDP-11/70 (6)
DEC PDP-11/55
DEC PDP-11/44 (10)
DEC PDP-11/45 (8)
Four Phase IV/90 (4)

CIRCUIT TECHNOLOGY INC.

160 Smith Street
Farmingdale, New York 11735

Contact:

Dale Wilson (516) 293-8686

Circuit Technology Inc. provides design, simulation, fabrication and packaging of semi-custom CMOS integrated circuits (gate arrays and standard cell arrays).

Computer(s): VAX-11/750

CITISHARE

Box 1127
New York, New York 10043

Contact:

Seymour Brooks (212) 572-9605

Citishare, owned and managed by a subsidiary of Citicorp, is a timesharing service specializing in financial applications. In addition to an outstanding financial modelling and reporting system, Citishare offers securities, financial, and economic data bases such as CITIBASE and CITIQUOTE. Computer(s): DECSystem 2060 (2)

COMMODITY SYSTEMS, INC.

200 West Palmetto Park Road, Suite 200
Boca Raton, Florida 33432

Contact:

Ms. Nassrin Berns (305) 392-8663
Telex: 522-107

The CSI MARSTAT™ data base offers the world's largest collection of commodity futures data, extensive security data and indicators. The data base stretches back as early as 1922 and continues through the present day. Security data and information on options, mutual funds, and treasury instruments can be obtained. Commodity information covers worldwide markets traded in the United States, Canada, Singapore, and many other foreign countries.

CSI provides each user with Quicktrieve™ software that will operate on the Apple, IBM, Commodore 64, and TRS-80 micros, and permits the user to retrieve, manage, study, and graphically review his private data base. The Quicktrieve system is offered to customers at an introductory price of \$135. Please see display ad on the last page of this booklet.

Computer(s): IBM PC or XT

Apple II +, IIe
Apple II +, IIe, or IIc
Commodore 64
TRS-80 Model III

COMNET

Computer Network Corporation
5185 MacArthur Boulevard
Washington, D.C. 20016

Contact:

A.C. Lewis (202) 244-1900

A general timesharing service.

Computer(s): ITEL AS 5/III

COMPUFUND

11740 Dublin Boulevard
Dublin, California 94568

Contact:

Cindy Cramer (415) 830-1010

CompuFund is a California-based firm which provides computerized mortgage-lending services to the home buying public through the real estate community. These services are provided through a mortgage-lending information data base system and computerized loan processing and underwriting capability.

The mortgage information systems bring realtors, homebuyer and lender together by providing instant computerized access to a variety of lender and loan information. The data base offers up-to-the-minute comparisons of hundreds of programs from local, regional, and national sources.

Supporting this basic service is the loan origination capability of CompuFund. This service is provided by a select group of CompuFund mortgage bankers. So not only can the realtor search through hundreds of financing options for his client, he can also speedily channel that loan for origination through a CompuFund network member. CompuFund national mortgage network is in fact, a total service concept from mortgage information... to loan processing... to actual loan funding.

Computer(s): HP 3000, Series 3

COMPUSERVE INCORPORATED

5000 Arlington Centre Boulevard
Columbus, Ohio 43220

Contact:

Communications Services (614) 457-8600

A nationwide computer services company serving businesses, financial institutions, government agencies, and personal computer owners. CompuServe maintains marketing offices in 30 cities across the United States.

Computer(s): DECSysTem 10
DECSysTem 20

COMPUSOURCE

1155 Kildaire Farm Road
Cary, North Carolina 27511

Contact:

Randall L. Washington (919) 469-3325

CompuSource is a remote computing services firm catering to the needs of both data processing professionals and end users.

CompuSource offers a broad range of software applications from program development languages and productivity utilities to decision support software tools. Other services include: disaster recovery support, laser printing, Marketing Information Data System (MIDS), relational data base/query language/prototyping utility (INFO), Interactive Financial Planning System (IFPS), Statistical Analysis System (SAS), and Biomedical Statistical Software (BMDP).

Computer(s): NAS AS-5, 7031

THE COMPUTER COMPANY

1905 Westmoreland Street
Richmond, Virginia 23230

Contact:

Ron Friedman (804) 254-2431

The Computer Company is a full-service data processing firm whose Interactive Data base Systems and related services are available through ACTION/APL.SV time-sharing and through a MC68000-based APL microcomputer interpreter.

The interactive systems offered are used primarily for market and financial analysis, maintenance management, and APL programming to generate management information helpful in planning, forecasting, and control.

Data bases, applications software and services are provided to the financial industry and to the transportation (primarily airlines) industry. Maintenance management systems are available to a variety of industries.

Financial industry services include a market analysis system for data exchanged by participating financial institutions; census demographics for 1980 and 1970; data bases for the Federal Reserve Bank (FRB), Federal Deposit Insurance Corporation (FDIC), Federal Home Loan Bank (FHLB); regulatory bulletins; financial statement analysis; merger and acquisition planning; asset and liability management.

Transportation data bases contain current and historical air traffic information, airport statistics, airline financial statistics, and railroad data. Form 41, ER-586, Domestic and International Origin and Destination, commuter, and ICC data are available to assist in market analysis and route planning.

Maintenance management systems can be used as independent components or integrated into a complete management program for project management and scheduling, work order backlog and history, inventory control and cost control.

Computer(s): IBM System 370/168
Amdahl 470 V/6

COMPUTER CORPORATION OF AMERICA (CCA)

4 Cambridge Center
Cambridge, Massachusetts 02142

Contact:
Judy Engraham
Bob Roda

CCA is a computer software and services company specializing in business communications with its COMET electronic

mail product, and in data base management with its MODEL 204 data base management system product.

CCA's COMET electronic mail system is available as a public service and currently supports 2,500 subscribers. A monthly subscription plan enables users to access this service on their own terminals from anywhere in the United States and from several other countries. The service is available 24 hours a day, seven days a week, and can be accessed using Direct Distance Dialing (DDD), as well as through the public data communications networks.

Model 204 data base management system is offered as a timeshared service by a number of CCA's commercial customers.

CCA's COMET electronic mail service runs on dual PDP-11/70s located at its headquarters in Cambridge, Massachusetts.

Computer(s): DEC PDP-11/70 (dual)

COMPUTER INTELLIGENCE CORPORATION

3344 No. Torrey Pines Court, #210
La Jolla, California 92037

Contact:
Vicki Singh (619) 450-1667

Computer Intelligence collects and analyzes data concerning the computer and office automation industries. Activities revolve around a continually growing data base providing current, accurate, and detailed hardware and software information about end user locations. Information is available on recent acquisitions, as well as buying intentions before the actual purchase. The CI Market Intelligence System is a comprehensive tool for direct sales, product planning, and marketing services.

The Computer Installation Data File contains information about domestic and Canadian computer systems installed at more than 65,000 locations. Each location is individually identified by name, address, corporate affiliation, and industry group. Data includes system manufacturer, model, installation date, peripheral equipment, and

software packages. Reports can be requested on individual locations. Statistical summary reports are also available.

The Computer Publications Retrieval System, available since March 1983, provides article abstracts from more than 900 computer-related journals, newsletters, and periodicals.

On-line access is a flexible interactive system developed for a "user friendly" atmosphere. It allows on-line access to the data bases in menu-driven or ad hoc query environment.

Computer(s): IBM 4341-11

COMPUTING RESOURCE CENTER

2116 Wilshire Boulevard
Santa Monica, California 90403

Contact:

William Gould (213) 453-4567

The Computing Resource Center provides a full range of data processing and computational support, both in-house and through remote terminal access. An IBM VM/CMS operating system is used to enable both interactive and background (batch) processing.

Application software includes data base management and text processing languages, catering particularly to the needs of individuals involved in statistical analyses. CRC proprietary software provides data base management and statistical support not found at other installations. For example, CRC maintains its own relational data base management product, OLDS (on-line data system), for quick data query and generalized record keeping. The center currently maintains the 1960, 1970, and 1980 Censuses, along with the March and May Current Population Surveys from 1968 to the present time. Other data bases include Country Business Patterns, A Panel Study of Income Dynamics (PSID), and Survey of Income and Education (SIE).

IBM-PCs have recently been employed by CRC to enhance the productivity of remote users. Complete linkage to the larger com-

puter is provided by proprietary software, including local data analysis, generation, and editing capabilities on the PC, thus reducing mainframe on-line time.

CRC will lease to its clients the necessary equipment for a remote connection or will assist in renting, leasing, or purchasing the necessary equipment from outside vendors. The Center also provides consulting support for clients who provide their own programmers along with direct programming support for those clients who desire it. The services of the Center are available 24 hours a day, seven days a week, including holidays.

COMPUTONE SYSTEMS, INC.

1 Dunwoody Park
Atlanta, Georgia 30338

Contact:

Lee Suttles (404) 393-3010

Provides financial planning services to the life insurance and financial communities, as well as least-cost formulation, product pricing, and inventory services to formula feed manufacturers and sausage companies. All services are provided from terminals manufactured and serviced by Computone Systems.

Computer(s): IBM System 4341

COOPERATIVE LIBRARY AGENCY FOR SYSTEMS AND SERVICES (CLASS)

1415 Koll Circle, Suite 101
San Jose, California 95112

Contact:

Diane Ellsworth (408) 289-1756

CLASS is a membership-based public agency dedicated to promoting library cooperation, automation, and resource sharing among all types of libraries and information centers. Services and products provided include: RLIN Shared Cataloging, Acquisitions, Interlibrary Loan and Search Only services; OnTyme electronic mail; discounts on BRS, DIALOG and SDC/ORBIT; discounts on library supplies, document delivery services and CLASS publications.

CORNELL UNIVERSITY

Cornell Computer Services

G02 Uris Hall

Ithaca, New York 14853

Contact:

Mariann Carpenter (607) 256-4981

General purpose interactive computing facilities under VM/370-CMS, with special emphasis on academic applications. Remote job submission and retrieval facilities to MVS/SP/JES2 batch processor. Comprehensive collection of standard language processors, utilities, graphics packages and libraries, mathematical libraries, and statistical packages, with emphasis on econometric analysis, policy analysis, and chemical mass-spectral identification. Floating Point Systems AP-190L and FPS-164 Array Processors are available for high-speed calculations. Specific applications are listed in this directory's "Major Applications/Software Facilities Available Through TYMNET" section. However, access to certain proprietary programs may be limited to educational and non-profit organizations.

Computer(s): IBM System 3081 D

IBM System 4341

DECSystem 2060

CYBERSHARE LTD.

550 Berry Street

Winnipeg, Manitoba

R3H 0R9

Canada

Contact:

A.L. Ballegeer (204) 775-0181

A service utility offering timesharing services in scientific and engineering fields. Other services include financial planning and on-line management information systems such as A/R and inventory control.

Computer(s): CDC Cyber 174

THE DMW GROUP, INC.

2020 Hogback Road

Ann Arbor, Michigan 48104

Contact:

Bruce Wilson

(313) 971-5234

The DMW Group is a diversified telecommunications consulting firm specializing in the development of advanced software for network analysis and management, telephone cost allocation and control, and the optimization of the mix of long distance telephone services. Software packages include NDMS, Net Worker, TOP, and TELECOST.

Computer(s): IBM System 370/158

DTSS INCORPORATED

Buck Road, Box 70

Hanover, New Hampshire 03755-0070

Contact:

Diane Haas

(603) 643-6600

DTSS is a general-purpose timesharing operating system which can provide interactive computing facilities with minimal response time lag for up to 300 simultaneous users. Initially designed for system developers, DTSS supports multiple file access methods and provides a number of development tools, including DaTaSyS, a state-of-the-art relational data base management system; MODEL, a powerful financial planning language; and DI-3000, an integrated system of device-independent graphics subroutines. In addition, DTSS offers five different system editors, concurrent background batch processing, several statistical and forecasting systems, and a rich language environment which includes BASIC, FORTRAN, COBOL, PLI/1, and others. Its high-powered billing system supports multiple rate schedules, royalty surcharging, session and project billing.

DTSS Incorporated also offers interactive computing services at wholesale rates. The DTSS Associates Plan enables resellers to offer proprietary software or value-added services at their retail rates via the DTSS computing facility. In-house timesharing services groups can control costs and consolidate outside timesharing usage, with no additional hardware or hardware

maintenance, by using the Associates Plan to bring applications inside. Because the software system offered under the Associates Plan is identical to the licensed system, a DTSS Associate can build up usage on the DTSS interactive computing system, and then move in-house with no conversion problems.

Computer(s): Honeywell DPS8
Honeywell Series 6000
Honeywell Series 60 Level 166

DALGETY, INC.
P.O. Box 5919
3055 Clearview Way
San Mateo, California 94402

Contact:
Ronald W. Winkler (415) 572-8000
Hans A. Carter Telex: 339513

General timesharing services. Software consulting services for financial applications.

Systems available 24 hours per day, 365 days per year via a nationwide network—public and private.

Computer(s): (1) DEC VAX-11/780 & VMS operating system
(1) DEC VAX-11/750 Basic, Basic + 2, Cobol, C, Fortran, Macro, and Pascal
(2) DEC PDP-11/70's RSTS/E operating system
Basic, Basic + 2, Macro

DATA CROWN, INC.
650 McNicoll Avenue
Willowdale, Ontario
M2H 2E1
Canada

Contact:
Kathleen Seymour (416) 499-1012

Datacrown is a network and information processing company servicing the United States and Canada. Services include Shared Processing, an alternative to in-house computing, with batch processing under MVS/XA and interactive processing with TSO, Wylbur and APL. Dedicated Processing is a service where Datacrown supplies and manages host processors for individual

client use. Streamline, another Datacrown offering, is a complete end-to-end network service where Datacrown can design, supply and manage a communications network to link mainframe, micro and mini computers. Specific application expertise exists in statistics, econometrics, project management, data base management systems, financial planning and graphics.

Computer(s): IBM System 3033 Attached Processor (1)
IBM System 3084Q (2)
IBM System 3081 (1)
IBM System 4381 (1)
IBM 3725 (5)
IBM 3705 (3)
CMT 3690 (5)
CMT 3670 (1)

DATA RESOURCES, INC. (DRI)
29 Hartwell Avenue
Lexington, Massachusetts 02173

Contact:
Gilbert M. Rodgers (617) 863-5100

Specialists in information services to support corporate, strategic planning and research. DRI's services include national, sectoral, industrial and international forecasts, econometric models of these entities, model-building software, and numeric and text data bases, as well as general time-sharing. DRI proprietary languages include EPS, TEXT, and DRISCAN. APL, FORTRAN, BASIC, and PL/I are also supported. DRI also supports downloading of data to personal computers.

Computer(s): Burroughs B7800 (4)
IBM System 4341

DATA TEK
1211 Chestnut Street, Suite 400
Philadelphia, Pennsylvania 19107

Contact:
Gus Mechalas (215) 564-4133

Data Tek offers on-line services and turn-key computer systems, and programming consulting.

Computer(s): HP 3000 Series III
Sigma 7

**BUSINESS • TECHNOLOGY • MEDICINE • LAW
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When you need information check **DIALOG**[®] first

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worldwide

For more information contact:

 **DIALOG** Marketing

3460 Hillview Avenue
Palo Alto, CA 94304
800-227-1927
800-982-5838 in California

DELPHI

General Videotex Corporation
3 Blackstone Street
Cambridge, Massachusetts 02139

Contact:

Kelly Thebodo, (617) 491-3393
Consumer Services
Dan Bruns,
Business & Custom Services

General Videotex Corporation operates the DELPHI Information Utility and private networks using the DELPHI Information Utility Products. DELPHI includes electronic mail, teleconferencing, bulletin boards, financial information and brokerage services, special interests forums, travel services, research data bases, UPI News, home shopping, games and other services of interest to both professionals and consumers.

A lifetime DELPHI Membership package, which includes the easy-to-use handbook and two hours of evening usage, retails for \$49.95. The DELPHI Starter Kit (lifetime membership, command card, and an hour of usage) can be purchased at computer stores for \$29.95. Ongoing usage rates are \$6/hour during evenings and weekends and \$16/hour during business days. There is no extra charge for access at 1200 baud and no monthly minimum.

Private or custom information utilities using the DELPHI on-line products and facilities can be set up quickly and easily to fit the requirements of organizations and associations. Typical examples are professional interest groups, customer support networks, inter-office information exchange, and vertical market open networks.

Computer(s): DEC VAX

ITT DIALCOM offers integrated communications and information retrieval services, featuring electronic mail and on-line data bases (AP & UPI newswires, ABI/Inform, Official Airline Guide/Electronic Edition).

Computer(s): Prime 850
Prime 750
Prime 550

DIALOG INFORMATION SERVICES, INC.

3460 Hillview Avenue
Palo Alto, California 94304

Contact:

Dialog Marketing (800) 227-1927
(California) (800) 982-5838

The DIALOG information retrieval service is the world's leading on-line interactive information retrieval service. This service is available worldwide and is used by approximately 50,000 customers. DIALOG currently offers access to more than 200 data bases covering a variety of fields including science, engineering, medicine, patents, chemistry, business, industry, education, social sciences, and humanities.

DIALOG offers its customers access to a wide range of information: more than 190 million abstracts of published journal articles, conference proceedings, etc.; information about funding organizations and sources of grants; both historical data and forecasts of industries, products, and end-use data for all countries of the world. DIALOG is available on-line daily, over 120 hours per-week, and all data bases are available continuously.

Computer(s): NAS AS/9080 (2)

DIALOGUE, INC.

19 Rector Street
New York, New York 10006

Contact:

Abe Abelman (212) 425-2665

ITT DIALCOM, INC.

1109 Spring Street
Silver Spring, Maryland 20910

Contact:

Sales Department (301) 588-1572

Dialogue Inc. is a New York-based technology company that offers its own software and management consulting expertise to solve marketing, financial planning, and operational problems.

Dialogue currently offers the following software products, all of which run on Prime, VAX, DECSystem 20, IBM/TSO, and IBM/CMS computers.

ACCESS MARKETING ANALYSIS SYSTEM, a menu-driven, interactive marketing analysis system that integrates internal shipment data with syndicated data sources such as SAMI, Nielsen, Majers, and NABSCAN. **ACCESS** reports, complete with presentation quality charts and graphs, provide marketing managers with top-line or detailed information on: assessing promotions; monitoring pricing strategies; double-checking sales forecasts, and managing sales accounts. The **ACCESS MARKETING ANALYSIS SYSTEM** is a fully prompted system designed for easy use.

ANALECT DSS GRAPHICS is an intelligent, easy-to-use computer graphics system for general business users.

ANALECT DSS GRAPHICS combines sophisticated graphic technology with Decision Support System (DSS) capabilities. **ANALECT** gives users the interactive ability to sort, select, and analyze massive amounts of data and distill it into clear presentation-quality charts. **ANALECT** command procedures can be saved for future use or for large production jobs. The system supports over 125 graphic devices.

ANALECT DSS GRAPHICS utilizes Megatek Corporation's **TEMPLATE** graphic technology. The functionality of a complete FORTRAN graphics subroutine library is available as interactive **ANALECT** commands. No knowledge of programming is needed.

ANALECT DSS GRAPHICS may be fully integrated into Dialogue's comprehensive **ANALECT DECISION SUPPORT SYSTEM**. This full system features other

decision support capabilities such as: statistical and multi-dimensional analysis; report writer; financial modelling; relational data base management system; and application building language.

ANALECT DECISION SUPPORT SYSTEM is an interactive, comprehensive management and systems building tool for financial, sales, production, and marketing applications. **ANALECT's** powerful internal data base management system can handle vast quantities of information and consolidate it into meaningful data bases to meet the requirements of any corporate department. The data is organized in a Relational Data Base Management System.

ANALECT's range of capabilities include: multi-dimensional data analysis; worksheet modelling and "what if" computations; forecasting; multivariate analysis; arima modelling; a report writer; programming language for custom applications; and presentation quality business and custom graphics.

ANALECT's multiple interfaces support users from programmers to executives according to their own levels of computer skills. Executives are prompted along with on-line menus and **HELP** aids. **ANALECT's** report writer feature customizes reports to an executive's specifications. Sophisticated routines to analyze marketing, financial or production trends are built into the system for easy use. In addition, **ANALECT** provides links to popular microcomputers and spreadsheets.

ANALECT is built in self-contained modules. All modules contain **ANALECT's** foundation of an interactive command language and basic data management. This foundation also includes calculations, DSS manipulations, display, file management, command sequences, and on-line user reference aids.

The **ANALECT** foundation may be combined with a single module, or a cluster, to create a smaller, single-function, stand-

alone specialized system. The most popular of these ANALECT systems are:

ANALECT MULTI-DIMENSIONAL ANALYSIS, which allows a user to structure data to reflect the business environment and simplify many analytical and reporting requirements. Whole blocks of marketing, financial, or other data can be sliced, calculated, and queried with great flexibility.

ANALECT FORECASTING provides a wide array of analysis functions, including time-series analysis, regression and econometric modelling, seasonal and outlier adjustment and multivariate analysis.

ANALECT REPORTING AND APPLICATIONS BUILDING allows a user to build specialized commands, menus, complex analysis and complete interactive applications for data bases of virtually unlimited size. Users can develop entire applications in a fraction of the time that programming languages require. It includes **ANALECT/RIM**, a report writer, a system building language, and the **ANALECT** foundation of DSS data management.

ANALECT/RIM is a new generation relational data base management system for query and reporting. It combines a simple data structure with powerful manipulation capabilities. All data bases can be queried, screened, merged, sorted and displayed. **ANALECT/RIM** requires no programming skills. It is available as an expansion module or as a part of the **ANALECT REPORTING AND APPLICATION** System.

ANALECT FINANCIAL MODELLING worksheets are made easier by advanced features such as prompted data entry, automatic handling of the time dimension and hierarchical consolidation of models and data. A menu-driven financial facility aids infrequent or novice users to ask "what if" questions, to consolidate models, and perform sophisticated goal-seeking or sensitivity analysis.

ANALECT software is available on trial purchase plan or through timesharing. Prices are available on request.

Computer(s): Prime
VAX
DECSystem 20
IBM/TSO and CMS

DIAL-TYME, INC.
2100 M Street, N.W.
Washington, D.C. 20063

Contact:
Jerry Henwood (202) 387-8963

Dial-Tyme offers on-line and off-line computer services and provides facilities management. Dial-Tyme is one of the largest general purpose computer services in downtown Washington. Applications emphasis is on data management and data base management, insurance, mathematics, and statistics.

Software available for customer use includes COBOL, FORTRAN, OS utilities, UCC's Tape Management System, SORT/MERGE, SYNC/SORT, and WYLBUR. Statistical users may use SPSS, SAS, TSP, TPL, and EASYTREVE.

Computer(s): IBM 4341 Group II
IBM 158

DOW JONES & COMPANY, INC.
P.O. Box 300
Princeton, New Jersey 08540

Contact:
Jon Rock (609) 452-2000

Dow Jones & Company, Inc., publishers of the Wall Street Journal, Barron's National Business and Financial Weekly and Dow Jones News Service, offers Dow Jones News/Retrieval, a broad-based business, economic, financial, investment and general interest service. Dow Jones News/Retrieval features Business and Economic News, Dow Jones Quotes, Financial and Investment Service, and General News and Information. The Business and Economic News Service includes up-to-the-minute news from

The Wall Street Journal, Barron's and the Dow Jones News Services, plus news and information covering the last 90 days.

Highlights of each day's Wall Street Journal are available 6 a.m., Eastern Time. A weekly update of economic news and statistics is published at 6 p.m. Fridays. Dow Jones Quotes offers current and historical prices for over 7000 stocks and other securities, and the Dow Jones Industrial, Transportation, Utility and Composite Averages.

Financial and Investment Services features profiles and extracts from SEC filings on 9000 companies; detailed financial information on over 3000 companies; corporate per-share earnings forecasts and weekly forecasts of major economic indicators.

General News and Information Services offers a complete 20-volume encyclopedia; The World Report, featuring national and foreign news from the wires of United Press International; sports and weather information, movie reviews, and transcripts of "Wall Street Week," the weekly PBS-TV show. MCI Electronic Mail and CompuServe Electronic Shopping Service. Dow Jones News/Retrieval can be readily accessed by standard terminals, personal computers, or communicating word processors via TYMNET from your home or office.

Computer(s): IBM System 4341
Model Group 2

DUN AND BRADSTREET

99 Church Street
New York, New York 10207

Contact:
Joseph Plotnick (201) 665-5370
Telex: U.S.A. 136-533 DNBUSINTL
International 4754-287 DUNBR

Dun and Bradstreet's Credit Services Division provides business information reports on more than 5.6 million business entities including Payment Analysis Reports and Dun's Financial Profiles, Credit Clearing

House (apparel) and Dunsquest, an on-line searching method for identifying businesses with given financial characteristics.

Computer(s): IBM System 3081
Quotron 801
Sigma 9

ELECTRONIC DATA SYSTEMS

1105 Kern Avenue
Sunnyvale, California 94086

Contact:
Ray Wylie (408) 738-4300

ELECTRONIC DATA SYSTEMS CORPORATION

2150 North Prospect Avenue
Milwaukee, Wisconsin 53202

Contact:
Chuck Wolf (414) 276-6776

A general timesharing and batch processing facility, featuring a customized software development service in addition to a general purpose library of programs. Specialties include credit union processing, manufacturing, construction job accounting and insurance processing.

Computer(s): Burroughs B7800 (2)

ENERTECH COMPUTING CORP.

2600 Southwest Freeway, Suite 300
Houston, Texas 77098

Contact:
Hank Wedelich (713) 521-9033

Enertech offers timesharing services and software specializing in programs for the design of oil and gas wells.

Computer(s): Prime

ENVIRONMENTAL RESEARCH & TECHNOLOGY, INC. (ERT)

696 Virginia Road
Concord, Massachusetts 01742

Contact:
Paul Iwanchuk (617) 369-8910 Ext. 651

Specialists in environmental information services, ERT's services include environmental data base management, air and water environmental models, forecast and observed weather, climatic data bases, support for marine activities, and environmental consulting. General timesharing and facilities management services are offered. RATFOR, FORTRAN, PASCAL, and BASIC are available.

Computer(s): Data General MV/8000
Data General M/600
Data General S/250
Data General C/330

EUROPEAN SPACE AGENCY
INFORMATION RETRIEVAL SERVICE
Via Galileo Galilei, C.P. 64
00044 Frascati, Italy

Contact:
Georges A. Proca (06) 94011
Telex: 610637 ESRIN I.

A major European on-line system offering access to more than 30 million references from some 60 scientific and technical data bases which include, for example, more than 6.5 million chemical references. Subjects covered include: aerospace, agriculture, aquatic sciences, astronautics, health sciences, biology, chemistry, computers, earth sciences, education, electricity, electronics, energy resources, engineering, environment sciences, management, medicine, oceanology, and Government reports. Both European and U.S.-originated files are treated. In addition to data bases and data banks, ESA-IRS offers:

- Electronic Mail
- PTS - a Personal Time Series creation facility
- Downloading
- Mikrotel, a high speed terminal package based on an IBM Xt microcomputer which can be used for upload, download, statistical data manipulation and other applications
- On-line/off-line data entry
- Private file service

- Information Processing Utilities such as creation of menu driven data bases, creation of Computer Aided Instruction programs and others.

Its multilanguage software QUEST allows on-line data entry facilities for the creation and maintenance of private files, as well as on-line ordering of primary documents and customized current awareness services. The common command language of EURONET/DIANE is also supported. QUEST is on-line 20 hours a day, and all data bases are available continuously.

Computer(s): Two Siemens 7865

FINANCIAL DECISION SYSTEMS, INC.
28035 Dorothy Drive
Agoura, California 91301

Contact:
Eric K. Marcus (213) 706-2000

Financial Decision Systems, Inc., designs, develops, markets, and supports unique automated management information systems meeting corporate tax and financial needs. The company's clients are primarily large, diversified organizations.

FDSI was a pioneer in integrating a relational data base with a powerful yet easy-to-use repertoire of commands permitting corporate decision makers to effectively analyze the myriad of alternatives and scenarios faced in today's fast-paced environment.

As of the end of fiscal 1983, more than 200 major corporations and financial institutions rely on FDSI software to meet their tax and financial needs. Supported by highly trained staff members in our Los Angeles, Chicago, and New York offices, FDSI meets the challenge of serving those needs with CORPTAX, CORPTAX CALENDAR, CPATAX CALENDAR, MICRO CORPTAX AND MICRO ASSET MANAGEMENT.

CORPTAX provides corporate management with an on-line interactive management information system that has powerful user-friendly commands, allowing evaluation of

all relevant business alternatives. With one day's training, corporate tax and financial personnel with no prior data processing experience will be using CORPTAX's sophisticated integrated data base to easily produce tax compliance, modelling and planning reports. Automation through CORPTAX reduces the work load by maintaining current tax and financial logic while permitting easy modifications so that this logic will reflect specific corporate interpretations.

CORPTAX provides the necessary tools for effectively analyzing the impact of various strategies by accepting an unlimited number of "what if" case studies and planning scenarios. CORPTAX also includes a comprehensive tax accounting system. CORPTAX is the management information system that brings everything together.

CORPTAX CALENDAR for the corporate tax professional and CPATAX CALENDAR for the CPA are easy-to-use tools providing the means to supervise tax requirements. Their comprehensive capabilities enable the tax professional to concentrate on analytical tasks by automatically performing routine functions such as monitoring filing due dates, estimated payments, reporting requirements, alternatives for filing or extending, and historical fact finding.

The CORPTAX CALENDAR contains a comprehensive data base comprising major tax events for Federal and all fifty state returns. CORPTAX CALENDAR incorporates a sophisticated Master Calendar, maintained and continuously updated with applicable legal and regulatory changes by the staff of highly qualified tax and data processing professionals at Financial Decision Systems, Inc.

MICRO CORPTAX is a revolutionary tax planning and compliance system designed for stand-alone operation on a microcomputer. Complete with the tax logic for all fifty states as well as the Federal return, it features the ability to enter data on forms

displayed on-line at your microcomputer screen in addition to producing the actual returns on a dot matrix or laser printer.

THE FUNCTIONALITY GROUP INC.
180 N. Michigan Avenue #1040
Chicago, Illinois 60601

Contact:

Roxiann Dwyer

(312) 372-6070

1 (800) 621-9155

The Functionality Group is a timesharing company known for its expertise in systems, the reliability of its equipment, and the professionalism inherent in all its services. The company also offers a financial modelling language, Execucom's IFPS (Interactive Financial Planning System), on a time-sharing basis.

Computer(s): Prime

GIBSON INFORMATION SYSTEMS
(GIS)

240 Fencel lane
Hillside, Illinois 60162

Contact:

Floyd Nichols

(312) 449-5900

GIS is a full service data processing facility featuring large scale IBM architecture main frames. Remote batch processing, networking, and data base management systems are fully supported. A wide variety of utilities, command level processors and compilers are available, as well as development and production aids such as TSO, SPF, ADS, BMS-GT, KEYFAST, CFAST, MFAST, and UCON.

GIS provides systems and consulting for communications networks, specialized front-end handlers, software conversions, and facilities management.

Consulting services and proprietary software products are provided for the banking and financial industries, including:

Account/Price Cost System, an on-line model for "what if" projection of interest earned/paid, fees for various accounts, cost accounting, PIL calculation, and a

specialized report writer; Trust Control Fee Modelling, which is similar to the Account Price/Cost System, and includes Account Analysis with the ability to isolate and correct substandard fee accounts; Securities Movement and Control, which provides on-line control of trades in process - eliminating fanfold tickets and improving operation in the bank securities back office.

Communications Software:

- pc Mainframe™ developed at GIS allows users to access, upload, and download mainframe data into Visicalc™ or other PC applications
- Custom IBM communications software is our speciality. These packages, written for Timesharing use on our mainframes or for in-house requirements.

Software: IBM MVS/SP, JES2, IMS, CICS, TSO, VTAM, PANVALET, SYNC-SORT, and FDR.

HDR SYSTEMS, INC.
8404 Indian Hills Drive
Omaha, Nebraska 68114

Contact:

Steve Bixler (402) 399-1400

A full service timesharing and data processing consulting firm offering interactive and batch processing and extensive consulting resources. A large library of specialized applications programs include data base management, engineering, scientific, statistics, management, and graphics.

Computer(s): CDC Cyber 170 Model 730-2
HDR Noah, stand-alone
data base machine
DEC VAX 780

HARDY ASSOCIATES LTD.

P.O. Box 746
Edmonton, Alberta
T5J 2L4
Canada

Contact:

Terry A. Cox (403) 436-2152

Time-sharing services and data processing consulting are offered, with specialties in system management for RSTS/E environments. WORD-11 is provided for word processing, and BASIC-PLUS, BASIC-PLUS2, and FORTRAN IV-PLUS are supported.

Computer(s): DEC PDP-11/70

ICARUS CORPORATION

One Central Plaza
11300 Rockville Pike
Rockville, Maryland 20852

Contact:

Robert L. Steinberger (301) 881-9350
Telex: 908763 ICARUS ROVE

Since 1969 ICARUS has provided Early Project Control Systems and Services to the chemical, petrochemical, pharmaceutical, ore beneficiation and energy processing industries for preliminary design, cost estimating, and scheduling of process facilities. ICARUS' COST, SPAN, TSS, and ARCHES Systems can be readily accessed by standard terminals or personal computers via TYMNET from your own office.

Computer(s): Prime 750
Prime 400

INFO GLOBE

444 Front Street West
Toronto, Ontario
M5V 2S9
Canada

Contact:

Rick Noble (416) 585-5250
Telex: 06-219629

Info Globe is the on-line division of The Globe and Mail, Canada's national newspaper. The Info Globe data base contains the full text of The Globe and Mail from November 14, 1977 to the present. Today's newspaper is on-line by 7:00 a.m. Eastern Time every day. Also available from Info Globe is MARKETSCAN, which contains the past 200 days' stock quotations from

the Toronto, Montreal, Vancouver, Alberta, New York, and American exchanges. Info Globe's Canadian Financial Database contains annual reports from the top 500 companies in Canada.

Computer(s): Canada Systems Group

THE INFO CENTER
TELELEARNING SYSTEMS, INC.
505 Beach Street
San Francisco, California 94133

Contact:
Thomas E. White (415) 928-2800
Margie Carlson

A major data base center providing direct connection to over 60 of the most popular files, ranging from electronic home services to business and information retrieval. THE INFO CENTER features auto dial capability to access The Source, CompuServe, Dow Jones, and other vendors, while including all sign-up fees in the original INFO CENTER package. Access UPI News Wires, Associated Press and the Official Airline Guide, or utilize field-specific courses, interactive seminars, and reference materials. This service is provided as a feature of TOTAL TELECOMMUNICATIONS: a complete communications package comprised of THE INFO CENTER, a 300 Baud auto dial - auto answer modem, and super intelligent software.

Computer(s): IBM PC
Apple II Series
Commodore 64

INFOMEDIA
801 Traeger Avenue, Suite 275
San Bruno, California 94066

Contact:
Sal Suniga (415) 321-2682

Infomedia provides management control services.

Computer(s): DECSYSTEM 2020

INFORMATION CONSULTANTS, INC.
1133 15th Street, NW
Washington, D.C. 20005

Contact:
J.T. O'Brien (202) 822-5200

ICI offers on-line text retrieval services tailored to your needs. HOST is ICI's data base service for information providers such as publishers, associations, government agencies, consulting firms and financial firms.

Through the HOST Data Base Service, ICI offers a full range of cost-effective services for designing, implementing, operating, and maintaining on-line customized data bases. HOST services are easy to use when implemented and can be managed by persons with no computer experience.

Legal support services, VERSUS, allow a law firm involved in a large case to build a unique system to store and search the full text of all information, including transcripts, documents, exhibits, and decisions that you decide are relevant to your case.

Computer(s): Multiple DEC 2060's

INTERACTIVE DATA CORP.
486 Totten Pond Road
Waltham, Massachusetts 02154

Contact:
Corporate Marketing (617) 890-1234
Services

Interactive Data Corporation is the information services subsidiary of the Chase Manhattan Bank, N.A. Interactive Data maintains the largest financial and economic data bases commercially available, as well as analytical software for investment research and management, financial management, corporate and strategic planning, marketing, and treasury management. Interactive Data's products and services are accessible through micro-mainframe technology, as well as traditional timesharing.

Computer(s): Amdahl 470/V8 (3)

“I thought electronic mail just sent messages?”



Clearly, plain electronic mail is an effective business tool. Some companies have reduced telephone time as much as 80% and cut memos in half.

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Today's OnTyme service is based on years of business experience. In 1983 alone, OnTyme carried millions of person-to-person written messages.

OnTyme, the electronic message service from TYMSHARE, offers you much more than just electronic mail:

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- Maximum use of installed computer terminals, through optional connection from your mainframe.
- Speedy message handling through special personal computer connection software.
- Decreased Telex and telephone costs, since only a local call is required.
- Messaging flexibility, through Telex and TWX connections where required.

- Advanced, integrated business solutions tailored to your needs, calling on the full range of TYMSHARE computer services.

If you manage a number of scattered locations that would benefit from OnTyme electronic messaging, learn about it directly from other managers.

Free OnTyme case studies are yours for the asking. Call 800-227-6185 (In California 415-876-7508). Or write: OnTyme Marketing, TYMSHARE, Inc., 20705 Valley Green Drive (VG 3-01) Cupertino, CA 95014

More Than Just Electronic Mail

OnTyme

LSW, INC.
8240 Professional Place
Suite 215
Landover, Maryland 20785

Contact:
Maureen Reynolds (301) 459-2323

LSW is a comprehensive computer services company located in the Washington, D.C. area, which provides an integrated set of applications software for correspondence management, word processing, mailing list maintenance, subscription fulfillment fund-raising, marketing, accounting systems, and customized mailings.

LSW specializes in providing correspondence and mailing services for political, trade associations, and special interest organizations. Customized data base development is available for interactive access or contract batch maintenance. Sales of turnkey systems and applications software are also provided. Volume printing of correspondence and special forms is available on a wide variety of fonts, along with consultative services in the production management of fund-raising correspondence.

LSW offers unique capabilities in the production of federal, state, and local campaigns, as well as contributor reports meeting election reporting requirements mandated by public law. Custom programming for business applications is also available.

General timesharing services are available. Programming languages include: BASIC, COBOL, FORTRAN, and QUEO. Facilities include Xerox laser printers, letter quality printers, envelope printing, mailing services, and data streamer cassette tape conversions for Prime 2250.

Computer(s): Prime 750
Prime 850
Prime 550
Prime 2250

LAWRENCE BERKELEY LABORATORY
Room 2232, Bldg. 50B
One Cyclotron Road
Berkeley, California 94720

Contact:
Eric Beals (415) 486-4000 xt. 5351
Via FTS: 451-5351

A general purpose scientific and engineering computer center operated for the U.S. Department of Energy, which is available to Federal authorized users.

Computer(s): CDC 6400
CDC 6600
CDC 7600

LOCKHEED DATAPLAN, INC.

90 Albright Way
Los Gatos, California 95030

Contact:
Steve Bandich (408) 866-7611

Lockheed DataPlan offers flight advisory service for pilots anywhere in the world. On-line services include JetPlan and MetPlan.

JETPLAN is an on-line interactive flight advisory system. Using a terminal (either portable or otherwise) a pilot can receive a computerized flight plan based on optimized routing using the most current weather information available coupled with the world's most sophisticated flight planning system. In addition, one can receive weather information, do route analysis, or receive information on airports around the world.

METPLAN is an on-line weather advisory system which offers weather briefings in either text or weather maps. Personalized weather briefings are offered on-line or off-line by registered meteorologists on duty around the clock.

Off-line, DataPlan offers International Flight Services including reservations, permits, and information on services available anywhere in the world. It also offers OpsPlan, the stand-alone computerized aviation information management system. MacPlan is a derivative of JetPlan that was

designed by DataPlan for the special needs of the U.S. Airforce Military Airlift Command.

Computer(s): IBM System 4341 (dual)
Univac 1100/70

M & R SERVICES, INC.
1326 5th Avenue, Suite 530
Seattle, Washington 98101

Contact:

Carl Peterson (414) 786-8663

M & R Services provides actuarial data processing support to Milliman & Robertson, Inc., consulting actuaries, to our clients, and to other users. Applications include: ACTASYST, a life insurance system for calculating reserves and values, GAAP reserves, profit studies and simple projects, a health claim reserving system for group insurers, and pension evaluation software. We also offer general programming in APL, FORTRAN 77, BASIC, and COBOL. Some restrictions in access apply.

Computer(s): Harris Model 800
IBM 370/148

MJK ASSOCIATES
122 Saratoga Avenue, Suite 11
Santa Clara, California 95050

Contact:

John L. Jennings (408) 247-5102

A commodity data information service (CDIS). Daily commodity contract and currency futures for 57 major commodities. The open, high, low, close (settling), volume, open interest plus cash and selected indices are available at 13:45 Pacific time, 23 hours/day, 7 days/week. The on-line data base extends back to 1969. Subscribers use standard programs to obtain such information as spread sheets and histories, bar graphs, and moving averages. Customized programs can be created to research investment ideas, systematize trading guidelines, and test strategies. MJK's newest product, POISE (Portfolio Opportunities Investigated through Simulated Executions), is a

software package that allows its user to select a trading strategy, characterize its performance in the marketplace, and assess the risks and rewards of that performance. MJK's Data Retrieval Service, designed for the microcomputer owner equipped with an RS 232 communications interface, is completely user-controlled. One may download any part of any contract or cash data, or generate and maintain a portfolio for daily updates. Typical MJK users are financial advisors, commodity brokers, and individual traders, Tektronix 4662 plotter supported, Apple II, TRS-80 and other microcomputers supported.

Computer(s): HP 3000 Series III

MCDONNELL DOUGLAS
COMMUNICATIONS SYSTEMS AND
SERVICES, INC. (MDCSS)
(Formerly Computer Sharing Services, Inc.)
7535 East Hampden Avenue, Suite 200
Denver, Colorado 80231

Contact:

Jim Ross (303) 695-1500

MDCSS offers interactive time sharing, remote batch, turnkey, and distributed processing applications primarily to the telecommunications industry but also to specialized areas like the investment banking industry. A large applications library is available to users that includes software systems for budgeting and purchasing, force planning and communications management, inventory, plotting and graphics, illumination engineering, financial modelling, bond management, and forecasting.

Computer(s): Honeywell 6600 Series (4)
VAX 11/780 (3)
Tandem NON-STOP II (1)
IBM 3033 (2)
IBM 3081 (9)
CDC Cyber 173 (1)
CDC Cyber 175 (3)
CDC Cyber 176 (1)

**MARC ANALYSIS RESEARCH CORP.
(MARC)**

260 Sheridan Avenue, Suite 314
Palo Alto, California 94306

Contact:

Dr. F. Hatt (415) 326-7511

MARC provides a general purpose finite element computer program covering capabilities for solving the widest spectrum of problems in structural analysis. The program has a large library of elements and an extensive selection of material behaviors, both linear and non-linear. Uses range from linear elastic analysis of 2 and 3-dimensional solids, shells, and beams, to applications in which non-linear material and geometric effects dominate and must be included in conjunction with sophisticated geometric modelling. Applications have included welding, low cycle fatigue of piping systems, post-buckling behavior steel liners in a containment vessel, and analysis from the smallest components to the largest structures.

Computer(s): Prime 550

**MARTIN MARIETTA DATA SYSTEMS
P.O. Box 13385-A**

Orlando, Florida 32859

Contact:

Jim Goforth

A full service computer facility offering interactive timesharing and remote batch service. Text processing, data base management systems, and a wide range of utilities/compiler/command processors are also available.

Computer(s): 3084-Q (2)

3081-KX

3033-UP (3)

THE METHODIST HOSPITAL

Texas Medical Center
6565 Fannin Street
Houston, Texas 77030

Contact:

Karen King (713) 790-2070

An on-line interactive system for filing and interpretation of pulmonary function data. Patient's demographic information and raw data is entered. Immediate printout of the values with predicted, percents of predicted, and complete interpretation is returned in chart-ready format.

Computer(s): IBM System 4341 Group 2
IBM System 3031

**NATIONAL COMPUTER NETWORK OF
CHICAGO**

1929 North Harlem Avenue
Chicago, Illinois 60635

Contact:

Len Bole (312) 622-6666

A computer services firm offering major applications/software facilities for business, electrical engineering, finance, forecasting, graphics, linear programming, math/statistics, project control management, science, simulation, statistical analysis, text editors and formatters, times series and transportation. APL, BASIC, COBOL, FORTRAN, MACRO, and MAX BASIC.

Data bases offered include COMDAT, FISCAL, OPTDAT, and TICK. Also available are complete data bases on all securities and futures traded in the U.S. and accounting information on 1,700 publicly held companies.

Computer(s): DECSYSTEM 2060 (2)

VAX 780

Honeywell 1648

**NATIONAL LIBRARY OF MEDICAL
(NLM)**

8600 Rockville Pike
Bethesda, Maryland 20209

Contact:

Barbara R. Sternick (301) 496-1351

NLM's on-line information retrieval services in the health sciences are provided through a series of data bases, including a 500,000-citation file of references and abstracts of journal articles. Retrieval is by

structured vocabulary or text word in article abstracts and titles.

For access, prior arrangements must be made by health institutions, profit and non-profit. Potential U.S. users apply through a Regional Medical Library. International access is based on special bilateral arrangements between the National Library of Medicine and non-U.S. countries.

Computer(s): IBM System 370/168 MP

NESHAMINY VALLEY INFORMATION PROCESSING

4850 Street Road
Trevose, Pennsylvania 19049

Contact:

Pamela Kolb (215) 322-3829
NVIP, a wholly-owned subsidiary of Combined International Corporation, is an IBM-equipped remote computing company. NVIP offers non-preemptible, generalized interactive and batch processing computer services.

NVIP supports multiple IBM operating systems which house a complete library of software, including interactive monitors ROSCOE, WYLBUR, TSO, CMS and CICS, data base management facilities IDMS, IMS/DB and FOCUS, decision support tools for graphics, statistics, financial modelling and test processing, disk and tape management utilities and comprehensive list of language compilers and interpreters.

These services are available through traditional timesharing, as part of a new service called RESOURCE MANAGEMENT SERVICE (RMS). Similar to a facilities management, RMS provides clients with a dedicated CPU, located at NVIP's corporate data center and supported by our staff of dp professionals.

Remote access to NVIP's facilities is available worldwide via several communications networks including NVIP's NVNET (SNA).

Computer(s): 24M IBM 3033MP MVS
12M IBM 3033U VM
32M IBM 3081K MVS
IBM System 370/158 (2)

NEWSNET, INC.

945 Haverford Road
Bryn Mawr, Pennsylvania 19010

Contact:

Linda G. Wark (215) 527-8030

The 200+ data bases included on NewsNet are specialized business information products which provide strategic and tactical information for business management decision making. Subjects covered include: advertising and marketing, aerospace, automotive, building and construction, chemical, corporate communications, education, electronics and computers, energy, entertainment and leisure, environment, farming and food, finance and accounting, general business, government & regulatory, health and hospitals, international, investment, labor, law, management, manufacturing, metals and mining, office, politics, power generation, public relations, publishing and broadcasting, real estate, research and development, social sciences, taxation, telecommunications, and transportation. Users may scan headlines, read full text and perform free text searches.

NewsFlash service provides an electronic 'clipping service' which automatically searches all new material, including the UPI news wire and PR Newswire, for those stories that match predefined keywords for each user. The scope of the data base products ranges from newsletters and bulletin services to directories and books. Users also have the capability of using electronic mail to communicate with all participating publishers.

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Online Computer Library Center, Inc.
6565 Frantz Road
Dublin, Ohio 43017

Contact:

Patricia Malloy-Christman (614) 764-6000
Telex: 810 339 2026

OCLC has designed and operates a bibliographic computer and telecommunications system that supports resource sharing among libraries.

Through the OCLC Online System, institutions catalog books, serials, and other library materials; order custom-printed catalog cards; create machine-readable data files; maintain location information on library materials; facilitate inter-library lending; and place and control acquisitions orders. The system provides bibliographic and location information to participating libraries and produces bibliographic information in the form of magnetic tapes and printed products.

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OCLC has many kinds of libraries: academic, academic research, community and/or junior college, corporate, federal, law, library school, medical, municipal and state government, public, school, state, and theological. Directly and indirectly, OCLC serves over 6,000 institutions. Several libraries outside the United States, including libraries in Australia, Canada, Denmark, Finland, France, Ireland, Mexico, the Netherlands, and the United Kingdom, use the OCLC Online System.

As of April 1984, the OCLC data base contained approximately 10.6 million bibliographic records.

Although OCLC is a not-for-profit corporation, it strives to be a self-sustaining organization. It derives its operating requirements from fees for products and services provided to its users. OCLC does not issue stock, pay dividends, or share profits.

Computer(s): Sigma 9 (8)
Tandem (39)
Digital D116 (16)

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Contact:

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Contact:

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Computer(s): Amdahl V7/B
IBM System 3031

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Computer(s) Amdahl 470
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IBM System 3081 K
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DEC 2020
TOPS 20 Operating System

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Computer(s): IBM System 3033
Amdahl 470 V/611

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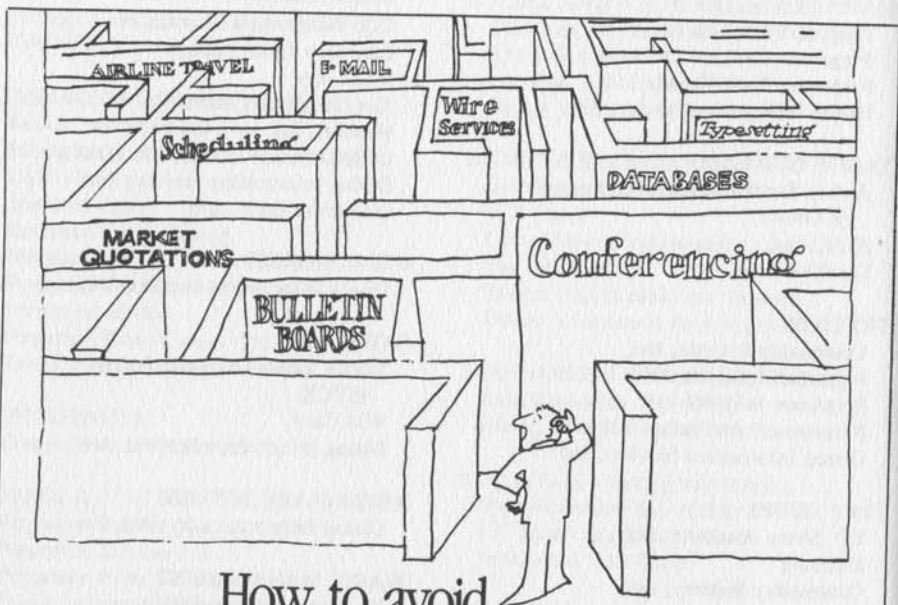
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HDR Systems, Inc.
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The Computer Company

COMPUTERIZED PHOTOTYPESETTING

Proprietary Computer Systems (PCS)

CONFERENCING

Data Resources, Inc. (DRI)
HDR Systems, Inc.
Cornell University
European Space Agency
DELPHI

CONSTRUCTION MANAGEMENT

Proprietary Computer Systems (PCS)
Business Information Systems, Inc.
UCCEL Corporation
Interactive Data Corp.

CORPORATE PLANNING

Data Resources, Inc. (DRI)
Hale Systems Inc., Remote Computing
Division
STSC, Inc.
Dialogue, Inc.
Financial Decision Systems, Inc.
Interactive Data Corp.

CORRESPONDENCE/MAILING LIST

Proprietary Computer Systems (PCS)
Uni-Coll Corp.
Commodity Systems Inc.
Southeast Regional Data Center (SERDAC)

COST PLANNING/CONTROL

Xerox Computer Services (XCS)
Interactive

CREDIT UNION PROCESSING

Electronic Data Systems
Electronic Data Systems Corporation

CROSS ASSEMBLERS/SIMULATORS

Sumex Computer Project
Tymshare, Inc.
Uni-Coll Corp.
I.P. Sharp Associates Ltd.
Cornell University

DATA BASE DESIGN

National Computer Network of Chicago
Uni-Coll Corp.
HDR Systems, Inc.
The Computer Company
Information Consultants, Inc.

DATA BASE MANAGEMENT

Statistical Tabulating Corp.
Sumex Computer Project
Timesharing Consultants, Inc. (TCI)
ABS/Datanetwork
Advanced Data Group, Inc. (ADG)
BTI Computer Systems (BTI)
DTSS Incorporated
Data Resources, Inc. (DRI)
Datacrown, Inc.
Hale Systems, Inc., Remote Computing
Division
Toledo Timeshare, Inc.
Proprietary Computer Systems (PCS)
Ross Systems, Inc. (RSI)
Science Applications, Inc.
STSC, Inc.
Bloodstock Research Information
Service, Inc.
CCS Automation Systems, Inc.
Dialogue, Inc.
Dial-Tyme, Inc.
Martin Marietta Data Systems
National Computer Network of Chicago
Tymshare, Inc.
Uni-Coll Corp.
Commodity Systems, Inc.
HDR Systems, Inc.
I.P. Sharp Associates Ltd.
Southeast Regional Data Center (SERDAC)
Stanford Information for Technology
Services

Silicon Valley Computer Society (SVCS)

The Computer Company

Cornell University

Computer Corporation of America

(CCA)

Neshaminy Valley Information Processing

Information Consultants, Inc.

Interactive Data Corp.

DEBUGGING AIDS

Statistical Tabulating Corp.

Datacrown, Inc.

UCCEL Corporation

Uni-Coll Corp.

I.P. Sharp Associates Ltd.

Silicon Valley Computer Society (SVCS)

The Computer Company

Neshaminy Valley Information Processing

Interactive Data Corp.

DISASTER BACKUP

Uni-Coll Corp.

CompuSource

DISTRIBUTION

Bloodstock Research Information

Service, Inc.

Tymshare, Inc.

ECONOMICS

Tymshare, Inc.

Battelle Memorial Institute

Bibliographic Retrieval Services (BRS)

Datacrown, Inc.

Data Resources, Inc. (DRI)

QL Systems Limited (QL)

I.P. Sharp Associates Ltd.

Citishare

Dialogue, Inc.

Dow Jones & Company, Inc.

Uni-Coll Corp.

Cornell University

Neshaminy Valley Information Processing

Interactive Data Corp.

EDUCATIONAL SERVICES

Business Information Systems, Inc.

Uni-Coll Corp.

Southeast Regional Data Center (SERDAC)

ELECTRICAL ENGINEERING

National Computer Network of Chicago

ELECTRONICS

System Development Corp. (SDC)

Pergamon InfoLine Inc.

Pergamon InfoLine Ltd.

Pergamon Press Canada Ltd.

Circuit Technology Inc.

CompuServe Incorporated

Cornell University

European Space Agency

Newsnet, Inc.

Dialog Information Services, Inc.

Bibliographic Retrieval Services (BRS)

ENERGY

System Development Corp. (SDC)

Bibliographic Retrieval Services (BRS)

Data Resources, Inc. (DRI)

QL Systems Limited (QL)

Petroleum Information Corporation (PI)

SACDA

I.P. Sharp Associates Ltd.

UCCEL Corporation

WSI Corp.

Commodity Systems, Inc.

The Info Center

The Computer Company

Cybershare Ltd.

European Space Agency

Newsnet, Inc.

Dialog Information Services, Inc.

Interactive Data Corp.

ENGINEERING

Sun Information Services

System Development Corp. (SDC)

Timesharing Consultants, Inc. (TCI)

Bibliographic Retrieval Services (BRS)

Pergamon InfoLine Inc.

Pergamon InfoLine Ltd.

Pergamon Press Canada Ltd.

SACDA

Science Applications, Inc.

Bradford National Computer Services

Enertech Computing Corp.

UCCEL Corporation

HDR Systems, Inc.

The Info Center
Cornell University
Cybershare Ltd.
European Space Agency
Dialog Information Services, Inc.
Lawrence Berkeley Laboratory

FACILITIES MANAGEMENT

Advanced Data Group, Inc. (ADG)
Hale Systems Inc., Remote Computing
Division
Environmental Research & Technology,
Inc. (ERT)
Martin Marietta Data Systems
Uni-Coll Corp.
HDR Systems, Inc.
CompuSource

FIELD SERVICE REPORTING

Advanced Data Group, Inc. (ADG)

FINANCIAL

TRW
Timesharing Consultants, Inc. (TCI)
Tymshare, Inc.
Advanced Data Group, Inc. (ADG)
Datacrown, Inc.
Data Resources, Inc. (DRI)
Hale Systems Inc., Remote Computing
Division
Ross Systems, Inc. (RSI)
Toledo Timeshare, Inc.
Proprietary Computer Systems (PCS)
STSC, Inc.
I.P. Sharp Associates Ltd.
Bradford National Computer Services
Citishare
Commodity Systems, Inc.
Business Information Systems, Inc.
Bridge Data Company
Dialogue, Inc.
Dow Jones & Company, Inc.
MJK Associates
McDonnell Douglas Communications
Systems and Services, Inc. (MDCSS)
National Computer Network of Chicago
Neshaminy Valley Information Processing
CompuFund
CompuServe Incorporated

Silicon Valley Computer Society (SVCS)
Statistical Tabulating Corp.
CompuSource
The Computer Company
Cybershare Ltd.
DTSS Incorporated
Computone Systems, Inc.
Dalgety, Inc.
Financial Decision Systems, Inc.
The Functionality Group Inc.
HDR Systems, Inc.
Newsnet, Inc.
Xerox Computer Services (XCS)
Interactive Data Corp.
Dun and Bradstreet

FIRE PROTECTION

Sigma Design West, Ltd.

FLIGHT PLANNING

Official Airline Guides, Inc. (OAG)
WSI Corp.
Lockheed Dataplan, Inc.

FORECASTING

Data Resources, Inc. (DRI)
STSC, Inc.
I.P. Sharp Associates Ltd.
McDonnell Douglas Communications
Systems and Services, Inc. (MDCSS)
The Computer Company
DTSS Incorporated

GENERAL LEDGER

Toledo Timeshare, Inc.
Dialogue, Inc.
UCCEL Corporation
Interactive Data Corp.

GOVERNMENT SUPPORT SERVICES

Tymshare, Inc.
Hale Systems, Inc., Remote Computing
Division
Proprietary Computer Systems (PCS)
Bradford National Computer Services
UCCEL Corporation
Information Consultants, Inc.
Southeast Regional Data Center (SERDAC)
Xerox Computer Services (XCS)

GRAPHICS/PLOTTING

Sumex Computer Project
Sun Information Services
Datacrown, Inc.
Data Resources, Inc. (DRI)
Science Applications, Inc.
I.P. Sharp Associates Ltd.
Commodity Systems, Inc.
Dialogue, Inc.
McDonnell Douglas Communications
Systems and Services, Inc. (MDCSS)
Neshaminy Valley Information Processing
National Computer Network of Chicago
UCCEL Corporation
Uni-Coll Corp.
HDR Systems, Inc.
Silicon Valley Computer Society (SVCS)
Statistical Tabulating Corp.
Cornell University
Interactive Data Corp.

HEALTH CARE

Bradford National Computer Services
Amherst Associates, Inc.
UCCEL Corporation

HEALTH CARE INDUSTRY SERVICES

Amherst Associates, Inc.
UCCEL Corporation

HYDRAULIC ENGINEERING

Pergamon InfoLine Inc.
Pergamon InfoLine Ltd.
Pergamon Press Canada Ltd.
UCCEL Corporation
Dialog Information Services, Inc.

ILLUMINATION ENGINEERING

McDonnell Douglas Communications
Systems and Services, Inc. (MDCSS)

INFORMATION MANAGEMENT

System Development Corp. (SDC)
Proprietary Computer Systems (PCS)
STSC, Inc.
CCS Automation Systems, Inc.
National Computer Network of Chicago
Uni-Coll Corp.
Information Consultants, Inc.

Statistical Tabulating Corp.
Cybershare Ltd.
Interactive Data Corp.

INFORMATION RETRIEVAL

ABS/DATANETWORK
Bibliographic Retrieval Services (BRS)
Data Resources, Inc. (DRI)
DELPHI
QL Systems Limited (QL)
Bridge Data Company
Dow Jones & Company, Inc.
Weather Network, Inc.
CompuServe Incorporated
European Space Agency
ITT Dialcom, Inc.

INSURANCE

ADP Collision Estimating Services
Data Resources, Inc. (DRI)
STSC, Inc.
I.P. Sharp Associates Ltd.
Bradford National Computer Services
Dial-Tyme, Inc.
Electronic Data Systems
Dun and Bradstreet
Electronic Data Systems Corporation
United Systems
Dialog Information Services, Inc.
Interactive Data Corp.
M & R Services, Inc.

INVENTORY CONTROL

Hale Systems Inc., Remote Computing
Division
Toledo Timehsare, Inc.
McDonnell Douglas Communications
Systems and Services, Inc. (MDCSS)
Cyershare Ltd.
Xerox Computer Services (XCS)

LIBRARY SERVICES

Bibliographic Retrieval Services (BRS)
The Info Center
Information Consultants, Inc.
Silicon Valley Computer Society (SVCS)
Stanford Information for Technology
Services
Cooperative Library Agency for Systems
and Services (CLASS)
OCLC

LINEAR PROGRAMMING

Proprietary Computer Systems (PCS)
I.P. Sharp Associates Ltd.
National Computer Network of Chicago
Neshaminy Valley Information Processing
Uni-Coll Corp.
Cornell University

MANAGEMENT CONTROL SERVICES

Proprietary Computer Systems (PCS)
Infomedia

MANAGEMENT INFORMATION SYSTEMS

Advanced Data Group, Inc. (ADG)
Proprietary Computer Systems (PCS)
I.P. Sharp Associates Ltd.
Commodity Systems, Inc.
National Computer Network of Chicago
Uni-Coll Corp.
CompuSource
Cybershare Ltd.
Financial Decision Systems, Inc.
HDR Systems, Inc.
Interactive Data Corp.
Lockheed Dataplan, Inc.

MANUFACTURING

Tymshare, Inc.
Bloodstock Research Information
Services, Inc.
STSC, Inc.
Electronic Data Systems
Electronic Data Systems Corporation

MARKETING/ADVERTISING

Tymshare, Inc.
Pergamon InfoLine Inc.
Pergamon InfoLine Ltd.
Pergamon Press Canada Ltd.
Proprietary Computer Systems (PCS)
I.P. Sharp Associates Ltd.
Dun and Bradstreet
CompuSource
HDR Systems, Inc.
Newsnet, Inc.
DELPHI
Dialog Information Services, Inc.
Interactive Data Corp.
LSW, Inc.

MATERIALS MANAGEMENT

STSC, Inc.

MATH/STATISTICS

Hale Systems Inc., Remote Computing
Division
Proprietary Computer Systems (PCS)
Science Applications, Inc.
I.P. Sharp Associates Ltd.
Dial-Tyme, Inc.
National Computer Network of Chicago
Neshaminy Valley Information Processing
Uni-Coll Corp.
Southeast Regional Data Center (SERDAC)
Cornell University
HDR Systems, Inc.

MECHANICAL ENGINEERING

Systems Development Corp. (SDC)
UCCEL Corporation
ABS/Datanetwork
Pergamon InfoLine Inc.
Pergamon InfoLine Ltd.
Pergamon Press Canada Ltd.
Enertech Computing Corp.
European Space Agency
HDR Systems, Inc.
Dialog Information Services, Inc.

MEDICAL

Bradford National Computer Services

METEOROLOGY

WSI Corp
Dialog Information Services, Inc.
Lockheed Dataplan, Inc.

MINING

UCCEL Corporation
QL Systems Limited (QL)
Newsnet, Inc.
Interactive Data Corp.
Pergamon InfoLine Inc.
Pergamon InfoLine Ltd.
Pergamon Press Canada Ltd.
Dialog Information Services, Inc.

MORTGAGE MARKET PROCESSING

Hale Systems Inc., Remote Computing
Division
CompuFund

NUCLEAR INDUSTRY SERVICES

UCCEL Corporation

NUMERICAL ANALYSIS/CONTROL

Data Resources, Inc. (DRI)

Uni-Coll Corp.

Cornell University

Interactive Data Corp.

OFFICE AUTOMATION

Computer Intelligence Corporation

ORDER ENTRY

Toledo Timeshare, Inc.

Bradford National Computer Services

HDR Systems, Inc.

PAYROLL

Toledo Timeshare, Inc.

Bradford National Computer Services

Xerox Computer Services (XCS)

PERSONNEL

Tymehare, Inc.

Hale Systems, Inc., Remote Computing
Division

Proprietary Computer Systems (PCS)

I.P. Sharp Associates Ltd.

PETROCHEMICAL

UCCEL Corporation

SACDA

Interactive Data Corp.

PETROLEUM INDUSTRY SERVICES

UCCEL Corporation

Toledo Timeshare, Inc.

I.P. Sharp Associates Ltd.

Enertech Computing Corp.

PIPING

UCCEL Corporation

PLANNING AND BUDGETING

Proprietary Computer Systems (PCS)

McDonnell Douglas Communications

Systems and Services, Inc. (MDCSS)

Uni-Coll Corp.

Xerox Computer Services (XCS)

CompuSource

Interactive Data Corp.

POLICY ANALYSIS

Cornell University

PROGRAM DEVELOPMENT

Toledo Timeshare, Inc.

Proprietary Computer Systems (PCS)

Uni-Coll Corp.

Statistical Tabulating Corp.

Interactive Data Corp.

PROJECT PLANNING/CONTROL

ABS/Datanetwork

Data Tek

I.P. Sharp Associates Ltd.

National Computer Network of Chicago

Uni-Coll Corp.

Xerox Computer Services (XCS)

The Computer Company

Icarus Corporation

Infomedia

Datacrown, Inc.

REAL ESTATE

Proprietary Computer Systems (PCS)

Redi On-Line Systems

CompuFund

CompuServe Incorporated

Newsnet, Inc.

Dialog Informamtion Services, Inc.

Interactive Data Corp.

REMOTE JOB ENTRY

UCCEL Corporation

Proprietary Computer Systems (PCS)

Neshaminy Valley Information Processing

Uni-Coll Corp.

CompuSource

Statistical Tabulating Corp.

RESEARCH & DEVELOPMENT

Battelle Memorial Institute

Bibliographic Retrieval Services (BRS)

Uni-Coll Corp.

The Info Center

European Space Agency

Newsnet, Inc.

Pergamon InfoLine Inc.

Pergamon InfoLine Ltd.

Pergamon Press Canada Ltd.

Dialog Information Services, Inc.

SCIENTIFIC

National Computer Network of Chicago
Interactive Data Corp.

SELECTION SERVICES

Interactive Data Corp.

SIMULATION

Data Resources, Inc. (DRI)
SACDA
Proprietary Computer Systems (PCS)
Science Applications, Inc.
I.P. Sharp Associates Ltd.
Circuit Technology Inc.
National Computer Network of Chicago
Uni-Coll Corp.
Interactive Data Corp.
Southeast Regional Data Center (SERDAC)
Sumex Computer Project
HDR Systems, Inc.

SELECTION SERVICES

Interactive Data Corp.

SOFTWARE DEVELOPMENT

Advanced Data Group, Inc. (ADG)
Bradford National Computer Services
SACDA
Science Applications, Inc.
Proprietary Computer Systems (PCS)
I.P. Sharp Associates Ltd.
Business Information Systems, Inc.
CCS Automation Systems, Inc.
Electronic Data Systems
Electronic Data Systems Corporation
National Computer Network of Chicago
Neshaminy Valley Information Processing
Uni-Coll Corp.
Interactive Data Corp.
Silicon Valley Computer Society (SVCS)
Statistical Tabulating Corp.

STATISTICAL ANALYSIS

Timesharing Consultants, Inc. (TCI)
Data Resources, Inc. (DRI)
Proprietary Computer Systems (PCS)
I.P. Sharp Associates Ltd.
Commodity Systems, Inc.
National Computer Network of Chicago
Neshaminy Valley Information Processing
Uni-Coll Corp.

CompuSource

Interactive Data Corp.
Southeast Regional Data Center (SERDAC)
Statistical Tabulating Corp.
Computing Resource Center
DTSS Incorporated
Datacrown, Inc.
Cornell University
European Space Agency
HDR Systems, Inc.

STRING AND LIST PROCESSING

ABS/Datanetwork
Science Applications, Inc.
Sumex Computer Project
Cornell University

STRUCTURES

UCCEL Corporation
HDR Systems, Inc.

TAX PROCESSING

Tymshare, Inc.
Exchange Data Inc.
Financial Decision Systems, Inc.

TELECOMMUNICATIONS

ABS/Datanetwork
DELPHI
Proprietary Computer Systems (PCS)
Neshaminy Valley Information Processing
Silicon Valley Computer Society (SVCS)
The DMW Group, Inc.
HDR Systems, Inc.
McDonnell Douglas Communications
Systems and Services, Inc. (MDCSS)

TEXT PROCESSING

Tymshare, Inc.
BTI Computer Systems (BTI)
Data Resources, Inc. (DRI)
Science Applications, Inc.
Proprietary Computer Systems (PCS)
QL Systems Limited (QL)
I.P. Sharp Associates Ltd.
Silicon Valley Computer Society (SVCS)
Neshaminy Valley Information Processing
Interactive Data Corp.
Southeast Regional Data Center (SERDAC)
Stanford Information for Technology
Services

Sumex Computer Project
Statistical Tabulating Corp.
DTSS Incorporated
Hardy Associates Ltd.
Martin Marietta Data Systems

TICKLER SCHEDULING

Proprietary Computer Systems (PCS)
Financial Decision Systems, Inc.

TIME SERIES ANALYSIS

Commodity Systems, Inc.
Neshaminy Valley Information Processing

TIMESHARING

Timesharing Consultants, Inc. (TCI)
UCCEL Corporation
Tymshare, Inc.
Advanced Data Group, Inc. (ADG)
Bradford National Computer Services
BTI Computer Systems (BTI)
Bloodstock Research Information
Service, Inc.
Business Information Systems, Inc.
Data Resources, Inc. (DRI)
Data Tek
Hale Systems Inc., Remote Computing
Division
Toledo Timehsare, Inc.
Ross Systems, Inc. (RSI)
STSC, Inc.
Proprietary Computer Systems (PCS)
I.P. Sharp Associates Ltd.
Sigma Design West, Ltd.
CCS Automation Systems, Inc.
Comnet
Electronic Data Systems
Environmental Research & Technology,
Inc. (ERT)
Electronic Data Systems Corp.
National Computer Network of Chicago
Neshaminy Valley Information Processing
Uni-Coll Corp.
Xerox Computer Services (XCS)
CompuSource
The Computer Company
Southeast Regional Data Center (SERDAC)
Stanford Information for Technology
Services

Statistical Tabulating Corp.
Dun Information Services
Cybershare Ltd.
ROTSS Incorporated
Dalgety, Inc.
Datacrown, Inc.
The Functionality Group Inc.
HDR Systems, Inc.
Hardy Associates Ltd.
Gibson Information Systems (GIS)
Polysystems, Inc.
Interactive Data Corp.
McDonnell Douglas Communications
Systems and Services, Inc. (MDCSS)
LSW, Inc.
M & R Services, Inc.

TRANSPORTATION

Airline Tariff Publishing Company
(ATPCO)
Battelle Memorial Institute
Data Resources, Inc. (DRI)
CCS Automation Systems, Inc.
European Space Agency
WSI Corp.
The Computer Company
Newsnet, Inc.
Official Airline Guides, Inc. (OAG)
Dialog Information Services, Inc.
Interactive Data Corp.

TRAVEL AGENCY SERVICES

Tymshare, Inc.
Official Airline Guides, Inc. (OAG)

VOICE RESPONSE

Bridge Data Company

WEATHER

Data Resources, Inc. (DRI)
Environmental Research & Technology,
Inc. (ERT)
WSI Corp.
Weather Network, Inc.
CompuServe Incorporated
HDR Systems, Inc.
Dow Jones & Company, Inc.
Lockheed Dataplan, Inc.

WELLS

Petroleum Information Corporation (PI)

INTERNATIONAL ACCESS

TYMNET offers worldwide access to subscribers' data bases and computer services through arrangements with international record carriers and local domestic carriers. TYMNET is accessible with a local phone call in the countries and territories listed below and from all other countries via Telex.

A network user identifier (NUI), or user name, for logging in to TYMNET may be obtained from the administration(s) named for the specific areas listed. All entries include a name, Telex number, and telephone number of a contact person in each administration.

ALASKA

Alascom, Inc.
949 East 36th Avenue
Pouch 6607
Anchorage, AK 99502
Contact:
Jerry V. Curlee

ANTIGUA

Cable and Wireless (W.I.) Ltd.
P.O. Box G8
St. John's
Antigua
Contact:
Mr. Carl B. Roberts (809) 462-0840
Telex: 2116

ARGENTINA

Empresa Nacional De Telecomunicaciones
(ENTEL)
Rividavia 618, Piso 1
Buenos Aires 1002
Contact:
Major Armando Parolari (541) 49-9817
Telex: 18372

AUSTRALIA

Overseas Telecommunications Commission
32-36 Martin Place
Sydney 2000, Australia
Contact:
Christopher C. Vonwiller (612) 230-5000
Telex: AA20591

AUSTRIA

Radio-Austria A.G.
Data Services
Renngasse 14
A-1010 Wien
Austria
Contact:
Peter Boesz (43222) 636-651 Ext. 78
Telex 47/114732

BAHAMAS

Bahamas Telecommunications Corp.
(BATELCO)
Chase Manhattan Building
Oaks Field
P.O. Box N3048
Nassau, Bahamas
Contact:
Anthony Weech (809) 323-4911
Telex: 20135

BAHRAIN

International Database Access Service
(IDAS) is offered by Bahrain International
Communications (BIC)
Bahrain Telecommunications Company
P.O. Box 14
Manama, Bahrain
Arabian Gulf
Contact:
Charles Baugh BAHRAIN 248212
Telex: BAHRAIN 8790

BARBADOS

Cable and Wireless (W.I.) Ltd.

BELGIUM

Regie Des Telegraphes Et Telephones
Department Transmission De Donnees
Boulevard de L'Imperatrice 17-19
1000 Bruxelles
Contact: (322) 213-3636
Telex: 29280

BERMUDA

Cable and Wireless PLC
P.O. Box 151
Hamilton 5, Bermuda
Contact:
Cornell R. Fox 1 (809) 295-4777 Ext. 247
Telex: 3321

BRAZIL

Empresa Brasileira De Telecommunicacoes
S.A. (EMBRATEL)
Avenue Presidenta Vargas 1012
6 Andar
20071 Rio De Janeiro RJ
Contact:
Rolf Hanel 216-8637
Telex: 2121810

CANADA

Telecom Canada
Room 1890
160 Elgin Street
Ottawa, Ontario K1G 3J4
Contact:
James R. Cheeseman (613) 239-5672

CAYMAN ISLANDS

Cable and Wireless (W.I.) Ltd.
P.O. Box 293
Grand Cayman
Cayman Islands
Contact:
Rudy Ebanks (809) 949-2223
Telex: 4210 CWAGNCY CP

CHILE

Empresa Nacional De Telecommunicaciones
Casilla 4254
Santiago De Chile
Contact:
Jorge Espinola (562) 72 11 21
Telex: 540864 ENTEL CB

CHINA

Pktelcom
Yi Shi Jin
Beijing Telecommunications Administration
11, Xi Chang An Street
Beijing, Republic of China
Contact:
Gao Xing Zong (716) 22211

COLUMBIA

Empresa Nacional De Telecommunicaciones
Seccion de Transmission de Datos
Calle 23 No. 13-49 Piso 8
Bogota, Columbia
Contact:
Herman Castilla (57) 241-2187
Telex: (396) 44288

COSTA RICA

Radiografica Costarricense S.A. (RACSA)
Apartado 54
San Jose, Costa Rica
Contact:
Mario Guzman (506) 335555
Telex: 1012 COMERCIAL

DENMARK

General Directorate of Posts and
Telegraphs
Datel Section
Farvergade 17
DK-1007 Copenhagen
Contact:
Carlos Pedergen 01 116-605
Telex: 22 999 gentel dk

DOMINICAN REPUBLIC

ITT World Communications, Inc.
P.O. Box 4472
San Juan, Puerto Rico 00905
Contact:
John Acosta (809) 721-2520
Olga Seda (809) 721-1322

FINLAND

General Directorate of Posts and
Telecommunications

Foreign Division
P.O. Box 528
00101 Helsinki 10

Contact:
Erkko Sorga (3580) 915-4838
Telex: 124557

FRANCE

Transpac
Tour Main Montparnasse
B.P. 145
75755 Paris Cedex 15

Contact:
Mr. Simon (331) 538-5211
Telex: TPC 260676 F

Direction Des Telecommunications Des
Reseaux Exterieurs (DTRE)
Service Commercial NTI
21 Rue de la Banque
75084 Paris Cedex 02

Contact:
Claude Girerd (331) 233-5122 Ext. 4323
Telex: 210775 CIALNTIF

FRENCH ANTILLES

GUADELOUPE

Agence Commerciale Des Telecommunications
Tour Secid Plan de La Renovation
B.P. 392
92162 Pointe a Pitre Cedex

Contact: (590) 821 800
Telex: 919874 ACTEL

MARTINIQUE

Agence Commerciale Des Telecommunications
41 Rue Gabriel Peri
B.P. 697
97200 Fort de France Cedex

Contact: (596) 714 695
Telex: 912590 ACTEL

REUNION

Agence Commerciale Des Telecommunications
26 Rue de la Compagnie
97489 St Denis de la Reunion Cedex

Contact: (262) 200112
Telex: 916280 ACTEL

The DTRE Address is written above.

GABON

Telecommunications Internationales
Gabonaises

B.P. 2261
Libreville

Contact:
Mr. Huame (241) 741 910
Telex: (973) 5200 GO TIG DG

GAMBIA

Gamtel Co. Ltd.
G.P.O. Banjul
The Gambia

Contact:
The General Manager Telex: 2200

GREECE

OTE

International Communications Department
1 Beranzerou Street
Athens

Contact:
Mr. Kokkotas (301) 363-8099
Telex: (863) 219797

GUAM

RCA Global Communications, Inc.
P.O. Box EH
Agana, Guam 96910

Contact:
R.J. Knapp 477-8261
477-9936

GUATEMALA

Economic Financial Studies Department
Finance Division

Empresa Guatemalteca de
Telecommunications (GUATEL)
7A Avenida 12-39 Zone 1
Guatemala, CENTRAL AMERICA

Contact:
Placido Castellanos Telex: 5333

HAWAII

MCI International
333 Green Street
Honolulu, Hawaii 96813
USA

Contact:
Rober Van Sciver (808) 538-7142
Telex: 633110

RCA Global Communications, Inc.
223 South King Street
Honolulu, Hawaii 96813
USA
Contact:
Mr. Les Leigh (808) 537-1679

HONDURAS
Contact:
Eng. Jose Humberto Nunez

HONG KONG
Cable and Wireless (HK) Ltd.
New Mercury House
22 Fenwick Street
G.P.O. Box 597
Wanchai, Hong Kong
Contact:
Albert Yung (852) 5-2831-628
Telex: 83000 CWCOW HX

HUNGARY
Post Central Telegraph Office
Posta Klzpointi Taviro Hivatal
P.O.B. 1
H-1364 Budapest, Hungary
Contact:
Dipl. Ing. Ivan Feczko 00361 184485
Dipl. Ing. Pal Horvath Telex: 229919 bct h

IRELAND
Telecom Eireann
Commercial Branch
Datamarketing and Sales
6/8 College Green
Dublin 2, Ireland
Contact:
Dermot Crawford 353-1-77 81 44
Telex: 92389

ISRAEL
Ministry of Communications
P.O. Box 23179
Tel Aviv 61231
Israel
Contact:
Zvia Nathan (972.3) 281-261
Telex: 341400

ITALY
Italcable
Via Calabria 46-48
00187 Roma
Italy
Contact:
Lorenzo Rossi (39.6) 477-0366

IVORY COAST
Intelci
Service Commercial Informatique Et
Teleinformatique
BP 1838
Abidjan 01
Contact: (225) 346-471

JAPAN
Kokusai Denshin Denwa Co. Ltd.
2nd Marketing Division
Commercial Department
1st Floor Marunouchi Mitsui Building
2-2-2 Marunouchi, Chiyoda-Ku
Tokyo 100
Contact:
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Telex: J24700 KDDSALES

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Contact:
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Telecommunications
Section Telecommunications
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Telex: 3410 GENTL Lu

MEXICO

Consejo Nacional De Ciencia Y Tecnologia
(CONACYT)

Edificio A
Circuito Cultural
Centro Cultural Universitario
Ciudad Universitario
04515 Mexico D.F.

Contact: -
Ing. Mario Rodriguez Manzanera
(52.5) 652-4000 Ext. 2000

Direccion General De Telecomunicaciones
Torre Central De Telecomunicaciones
Eje Central Lazaro Cardenas No. 567
Mexico 12, D.F.

Contact:
Ing. Jose Lopez Segura (52.5) 530-3982

NETHERLANDS

Netherlands Postal and Telecommunications
Service Headquarters
Telecommunications Commercial Affairs
Dct-Data
P.O. Box 30000
2500 GA The Hague

Contact:
Jolanda Rens (31.7) 075-8611
Telex: 31111 Dctdata

NEW ZEALAND

Overseas Telecommunications Division
Post Office Headquarters
Waterloo Quay
Wellington, New Zealand

Contact:
Alan E. Ryan (644) 738-444 Ext. 646
Telex: NZ 3381

NORWAY

Norwegian Telecommunications
Administration

Contact: (472) 248-8724
Telex: 71203

Postboks 6701
St. Olavs Plass
N-Oslo 1

Contact:
Ms. Hjoerdis Brustad (47.2) 488-990
Telex: 71203

PANAMA

Intel
Apartado 9A-659
Panama City, 9A

Contact:
Horacio Hoquee (507) 64-6100
Telex: 2660

PERU

Entel
Empresa Nacional De Telecomunicaciones
Las Begonias 475 - 3ER Piso
Lima 27

Contact:
Eng. Marcial Gonzales Cacho (51.1) 442-1130
Telex: 21101 Pe Entel

PHILIPPINES

Astern Telecommunications
Philippines, Inc. (ETPI) (WUI)

Electra House
115-117 Esteban Street
Legaspi Village, Makati
Metro Mainola, Philippines

Contact:
Ric Habacon (85) 6011 Ext. 330
Telex: 63305 ETPNET PN

Globe Mackay Cable and Radio
Corporation

ITT Building
669 United Nations Avenue
Manila, Philippines 2801

Contact:
Antonio M. Urera (50) 6181
Telex: 7420005

Philippine Global Communications, Inc.
RCA Global Communications
8755 Paseo De Roxas, Makati
Metro Manila 3117, Philippines

Contact:
Alfredo Y. Bacolod 891-861
Telex: 22388GMPH

PORTUGAL

Companhia Portuguesa
Radio Marconi (CPRM)
Praça Marques de Pombal, 15-7
Lisbon 1200, Portugal
Contact:
Victor Gomes (351.1) 524-191
Telex: 12384 CPRM P

PUERTO RICO

ITT World Communications Inc.
665 Ponce de Leon
San Juan, Puerto Rico 00904
Contact:
Alberto Menendez (809) 792-8440
Telex: 3450007

RCA Global Communications, Inc.
Post Office Box 3388
Old San Juan, Puerto Rico 00904

Contact:
Angel Feliciano (809) 724-2574

Puerto Rico Telephone Company (PRTC)
1500 Roosevelt Avenue
San Juan, Puerto Rico

Contact:
Carlos Reyes (809) 792-8480

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Cable and Wireless Saudi Arabia Ltd.
P.O. Box 6196 Riyadh
Kingdom of Saudia Arabia

Contact:
John Carroll (9661) 465-7092
Telex: 495 201691

SINGAPORE

Telecom Singapore
Comcentre Branch, Telecoms
31 Exeter Road
Singapore 0923
Republic of Signapore

Contact:
Tan Tech Li (65) 734-3344
Telex: 33311

SOUTH AFRICA

Telecommunications Commercial
Private Bag X74
Pretoria 00001
Contact:
Mr. G. Van Mierkerk (27.12) 293-1156
Telex: (960) 30229

SOUTH KOREA

Data Communications Corp. of Korea
Korea Stock Exchange Building
33 Yeoeido-Dong, Yeongdungpo-Ku
Seoul
Contact:
Mr. Sang Joon Kim 783-3991
Telex: DACOM K28311

SPAIN

Compania Telefonica Nacional De Espana
Departamento Internacional
Plaza de Espana, 4
Madrid 13, Spain
Contact:
F. Linares (341) 248-8120
Telex: 27774 CNTI-E

SWEDEN

Stockholm Telecommunications Area
Datacommunications Sales Division
P.O. Box 7294
S-10390 Stockholm
Contact:
Gunnel Kling (468) 780-8750
Telex: 12020 DATSTH S

SWITZERLAND

Direction Generale Des PTT SUISSES
Viktoriastrasse 21
3030 Berne
Contact:
Mr. Kaeser (41.31) 625-666

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Brooklyn, New York 11217
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Overseas Department
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Telex: 235836

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1331 Pennsylvania Avenue., N.W. Suite 1
Washington, D.C. 20004
Telephone: (202) 879-2264
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Tom Chin
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1 Wui Plaza
New York, New York 10004
Telephone: (212) 363-3082

Jim Fitzpatrick
RCA GLOBAL COMMUNICATIONS
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Piscataway, New Jersey 08854
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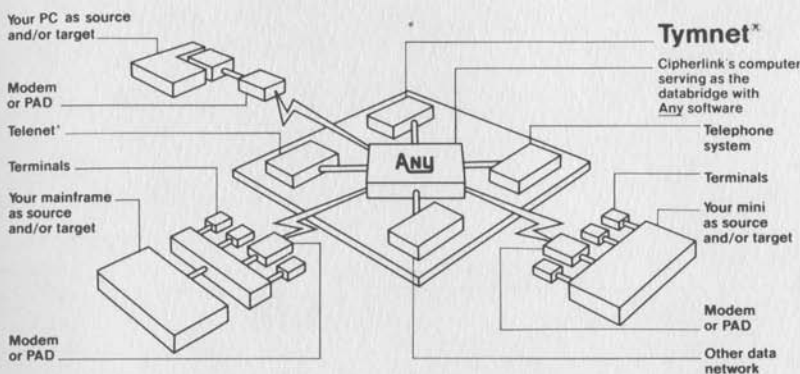
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