

**Software Directories for Microcomputers:  
An Annotated Bibliography  
Second Edition**

**by**

**Thomas C. Stilwell**

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**SOFTWARE DIRECTORIES FOR MICROCOMPUTERS:  
An Annotated Bibliography  
Second Edition\***

By

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1985

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## PREFACE

There is a worldwide revolution in small computer technology underway and scientists are struggling to find ways to utilize this new technology to help solve development problems in the Third World. We are pleased to announce a number of papers on microcomputers in international agriculture will be published in our International Development Papers series. The aim of these papers is to provide timely information about the rapidly changing state of the new micro-processing technology and its use in research. The papers are also intended as guides to agricultural and social scientists on choosing, installing, and maintaining microcomputer hardware and software systems in developing countries.

Some of the papers will also document field experiences of selected established projects using new data processing hardware and software. Other papers will concentrate on developing guidelines for establishing and maintaining successful microcomputer and/or programmable calculator installations for agricultural research in developing countries.

The present paper is a 1984 update of the third of these papers. It is based on staff work by faculty members and graduate students of the Department of Agricultural Economics, Michigan State University, on cost-effective data collection, management, and analysis techniques for developing country applications. The author of this paper, Dr. Thomas Stilwell, has developed considerable experience in using microcomputers in agronomic research through his work with CIMMYT (International Maize and Wheat Improvement Center) and the Consortium for International Development in Bolivia. Dr. Stilwell wrote this while working as a Visiting Associate Professor at Michigan State University.

Readers are encouraged to submit comments about these papers on microcomputers and to inform us of their activities in this area. Write directly to: Dr. Michael T. Weber, Co-Director, Food Security in Africa Cooperative Agreement, Department of Agricultural Economics, Michigan State University, East Lansing, MI 48824-1039.

## SOFTWARE DIRECTORIES FOR MICROCOMPUTERS

This listing of directories is intended for the researcher in a developing country attempting to find suitable software for his/her microcomputer. All of the directories included here are printed directories. Although several on-line software databases do exist in the USA they are not included here because they are not available to overseas users as a practical alternative.

While some directories attempt to list all known software others aim for specific users such as businessmen or farmers. As a general rule those that aim for a specific reader have better listings than the general directories. The amount of software available is staggering and no general listing can be complete and useful at the same time. We have generally attempted to exclude "directories" published by commercial establishments that also sell software since these are usually incomplete.

One fact of life is that each directory is out of date by the time it is published. New software is being released at such a rate that it is impossible to print new directories fast enough. Some directories are also one time publications due either to economics, staff changes or just plain frustration at trying to keep up. If you are not concerned with purchasing the best, newest, most powerful software package then a directory is for you. If you must have the state-of-the-art software for a specific application then it is best to subscribe to 10-12 magazines with air mail delivery. Then be prepared to debug someones new, state-of-the-art masterpiece!

## EXPLANATION OF DIRECTORY LISTINGS

### Name

The name of the directory is reproduced as nearly as possible to resemble that name given on the front cover.

### Vendor

The vendor shown is, to the best of our knowledge, the principal vendor. Where possible secondary vendors and duplicate listings have been eliminated.

### Price

The price shown is for delivery within the country of origin and is given in units of currency of that country.

### Pages and Programs

In most cases the number of pages and number of programs included in the directory are noted. This serves as some indication of the size and completeness of the directory. For example, if a directory has 1688 programs listed in only 20 pages (Index to CP/M Software) it is easy to guess that the amount of information is not as complete as a directory with 484 programs in 404 pages (Addison Wesley). Unfortunately many directories do not number their pages and counts of programs contained were either difficult or impossible. For this reason counts like 400+ or 'many' are used where exact numbers could not be reported.

### Indexing

The methods of cross-indexing are noted to give an idea of the ease of finding a software package for your particular needs. In some cases the directory only has the programs classified by general areas. If you are looking for a specific scientific application you may need to read through the entire directory to find something that fits your needs. For only a few hundred programs this is not too difficult but if there are 2000-3000 programs listed this could be a long term job. With more types of cross-indexing your task becomes easier.

### Description

A short description is given of the directory in order to give a bit of its 'flavor' and usefulness for agriculturally oriented users. In most cases this is a description resulting from actually using or reviewing the directory. In a few cases (the most expensive directories) this information has been taken from advertising literature.



Some or all of the following abbreviations have been used in this listing.

A\$	Australian Dollar
Bfr	Belgian Franc
BrSt	British Sterling (Pounds)
Cards	Peripheral cards
Cass	Cassette or cassette recorder/player
Cn\$	Canadian dollars
CPU	Central Processing Unit
CRT	Cathode Ray Tube (video display system)
Cr\$	Cruzeiro (Brazil)
DM	Deutsch Mark (W. German Mark)
Disk	Disk drives or floppy disk
FF	French francs
HK\$	Hong Kong dollar
Joystick	Game control paddle
List	Program listing
MN\$	Moneda Nacional (Mexico)
Monitor	Video display system
NeFr	Franc (Netherlands)
NZ\$	New Zealand Dollar
P\$	Philippine pesos
RAM	Random Access Memory
ROM	Read Only Memory
Tape	Cassette or cassette recorder/player
US\$	United States dollars
Video	Video display system

## MICROCOMPUTER SOFTWARE DIRECTORIES

### 3 A Computer Products Catalog

Vendor: 721 Pike Street  
 Cheyenne, Wyoming 82009  
 USA

Price: US\$ 2.00 as of Nov. 82  
 It has 144 pages listing 125vol programs  
 Programs are indexed by program type and diskette

The 3 A (Apple Avocation Alliance) is a commercially oriented Apple users group. The catalog lists much commercial software and hardware but it also lists public domain software for Apple computers which cost US\$ 1.00 plus the cost of a diskette for each volume ordered. The 33 pages of listings give only the disk directory listing for each diskette. Some of the 21 subject areas are Business & Finance, Math & Statistics, Passion (Sex) and Utility. These are normal public domain programs and little or no debugging has been done but it is still an excellent source of programs.

### Addison-Wesley Book of Apple Computer Software

Vendor: 16720 Hawthorne Boulevard  
 Lawndale, California 90260  
 USA

Price: US\$ 19.95 as of Oct. 82  
 It has 404 pages listing 484 programs  
 Programs are indexed by name within program type

A very well done directory of programs. It includes an evaluation of each program plus occasional reproductions of the screen. Also it has very short sections on some types of Apple hardware. Although the number of programs included is very limited the evaluation of each one makes it worthwhile.

### Agpros Directory

Vendor: Box 64539  
 Lubbock, Texas 79464  
 USA

Price: US\$ 90.00 as of Oct. 82  
 It has 600+ pages listing 500+ programs  
 Programs are indexed by program type

This is a looseleaf directory in 3 volumes (Crops, Business/Finance and Livestock). All are farmer oriented programs for Radio Shack and Apple computers. The descriptions are only fair but monthly updates keep it very current. This would be very useful for farmers who need software. The price is US\$ 90 for a single set of the three directories. For US\$ 144 you receive the three directories plus monthly updates for each.

**Agrar-Software**

Vendor: Zimmerweg 16  
 D-6000 Frankfurt a.M.1  
 W. Germany  
 Price: DM 10.00 as of Sept 83  
 It has 313 pages listing 274 programs  
 Programs are indexed by Program name, Program type, Computer

Agrar-Software is the first German directory of farmer software. Each program description is brief and includes information about the type of end user, hardware needed, language, cost and documentation provided. In contrast to most directories there is no narrative discription of what the software does.

**Agricultural Microcomputing Software Catalog**

Vendor: 45 Dunfield Ave. #1119  
 Toronto, Ontario M4S 2H4  
 Canada  
 Price: ? as of ?  
 It has ? pages listing ? programs  
 Programs are indexed by ?

No more detailed information available at this time.

**Agricultural Software Directory**

Vendor: Agriculture Dept.  
 3426 E. 242nd Street  
 Elko, Minnesota 55020  
 USA  
 Price: US\$ 18.69 as of Nov. 82  
 It has 191 pages listing 487 programs  
 Programs are indexed by program type and computer

The listings are limited to software for Apple, Radio Shack, CP/M and others. Programs are for farmer uses such as ration formulation and bookkeeping. Each program in a package is described by 4-6 lines plus hardware requirements, price and supplier. It has the best descriptions of the farmer oriented software directories reviewed. Although some simple programs only cost US\$10 most are over US\$300 with a few costing US\$2000! (not for a subsistence farmer)

**APPLEFreeloader**

Vendor: PO Box 57221  
 Washington, D.C. 20037  
 USA

Price: US\$ 6.95 as of Nov. 82  
 It has 72 pages listing 3500+ programs  
 Programs are indexed by program name and type

This is a listing of public domain software for Apple computers. The listing of programs is divided into several types including Business & Finance and Math & Statistics. Each program listing is simply a program name, type (Assembly, Basic, Applesoft, etc.), length and program source. The programs may be purchased in sets for US\$ 75 each or as program listings for US\$ 20 each type. There are also very useful listings of Apple users groups, publications and catalogs. It is one of the best listings of public domain software on the market.

**Asia DP Index & Software Register**

Vendor: Locked Bag Service No. 8  
 Jurong Town Post Office  
 Singapore 9161  
 Singapore

Price: US\$ 25.00 as of Feb. 83  
 It has 246 pages listing ? programs  
 Programs are indexed by source, country

This is a directory of commercial sources of hardware and software in seven Asian countries: Hong Kong, Indonesia, Malaysia, Philippines, Singapore, Taiwan and Thailand. All levels of computers are included though most of the listings are for mini and microcomputers. Each company is listed with its address, manager's name, number of staff, types of computers and types of software offered. If you are working in Asia this should be on your desk.

**The Blue Book for the Apple Computer**

Vendor: 5245 W. Diversey Avenue  
 Chicago, Illinois 60639  
 USA

Price: US\$ 24.95 as of Jan. 83  
 It has 464 pages listing 2088 programs  
 Programs are indexed by program name and type

This directory includes mostly software but also has a section on equipment (like an Arabic Apple and the bacterial colony counter). The software descriptions range from 1 line to nearly half a page, and include minimal hardware and price information for the package. The descriptions appear to be summaries of the vendor literature and not results of using the software. Among the 57 software types of interest are Statistics, Graphics, Word Processing, Data Base Management and Utilites. In summary it is a very useful directory for Apple software and hardware.

**Blue Book for the Atari Computer**

Vendor: 5245 W. Diversey Ave.  
Chicago, IL 60639  
USA

Price: US\$ 17.95 as of July 83  
It has ? pages listing ? programs  
Programs are indexed by ?

**Blue Book for the Commodore Computer**

Vendor: 5245 W. Diversey Ave.  
Chicago, IL 60639  
USA

Price: US\$ 17.95 as of July 83  
It has ? pages listing ? programs  
Programs are indexed by ?

**Blue Book for the IBM Personal Computer**

Vendor: 5245 W. Diversey Ave.  
Chicago, IL 60639  
USA

Price: US\$ 24.95 as of July 83  
It has ? pages listing ? programs  
Programs are indexed by ?

**CBASIC Software Directory**

Vendor: PO Box 579  
Pacific Grove, California 93950  
USA

Price: US\$ 7.50 as of Oct. 82  
It has ? pages listing ? programs  
Programs are indexed by ?

No more information available at this time.

**Color Computer Catalog**

Vendor: 3705 Mary Ellen N.E.  
Albuquerque, New Mexico 87111  
USA

Price: US\$ 12.00 as of Feb. 83  
It has ? pages listing 1000+ programs  
Programs are indexed by

There are two editions per year. The price shown is for a single edition.

**Commodore Software Encyclopedia**

Vendor: 681 Moore Road  
 King of Prussia, Penn. 19406  
 USA

Price: US\$ 5.00 as of Oct. 82  
 It has 406 pages listing 950 programs  
 Programs are indexed by ?

This directory of Commodore software, hardware and publications also includes some software from Canada and Europe. The program descriptions include a 2-10 line description, hardware requirements and price. The major classifications are Business, Word Processing, Utilities, Engineering, Personal, Games, Vic 20, and Education. There are few statistical programs listed.

**CP/M Compatible Software Catalog**

Vendor: PO Box 579  
 Pacific Grove, California 93950  
 USA

Price: US\$ 10.00 as of Oct. 82  
 It has 104 pages listing 0 programs  
 Programs are indexed by ?

Although the title says it is a software catalog it is really a catalog of sources of CP/M software. The sources are divided into US and non-US vendors. Each vendor is listed with their address and a short description which may describe their major CP/M programs or simply give the types of software sold. The vendors are also listed by type of software (word processor, accounting, etc.) and languages (PL/1-80, CBASIC, etc.). Although useful to find non-USA sources of software, there are better directories for CP/M software.

**CP/M Software Finder**

Vendor: 7960 Castleway Dr.  
 Indianapolis, IN 46250  
 USA

Price: US\$ 14.95 as of Sept 83  
 It has 330 pages listing ? programs  
 Programs are indexed by Program name, Source, Program type

No further information is available at this time.

**CPMUG Library**

Vendor: 1651 Third Avenue  
 New York, New York 10028  
 USA

Price: US\$ 6.00 as of Dec. 82  
 It has 80 pages listing 85v of programs  
 Programs are indexed by volume

The CP/M Users Group maintains an extensive collection of CP/M public domain software. The software is on 8" IBM format disks and the cost is US\$8.00 each. In general each disk tends to have software of a similar nature such as games, utilities, etc. Most of the software is classified as utilities and there are few applications programs.

**Data World**

Vendor: 660 N. Park Drive  
 Pennsauken, New Jersey 08109  
 USA

Price: US\$ 610.00 as of Oct. 82  
 It has 3000+ pages listing many programs  
 Programs are indexed by program name

The price includes monthly updates. There are four volumes in the basic set: Mainframes, Mini & Microcomputers, Applications & Systems software, and Data Communications. Both hardware and software are included. The emphasis is on large computers with little attention given to micros.

**DataPro Directory of Microcomputer Software**

Vendor: 1805 Underwood Boulevard  
 Delran, New Jersey 08075  
 USA

Price: US\$ 400.00 as of Oct. 82  
 It has 1576+ pages listing many programs  
 Programs are indexed by program name, source and type

One of the most expensive directories; probably overpriced. The program listing is incomplete but there is very good information on those programs included. The best listings are for accounting and other commercial applications but the agricultural software section is unbelievably incomplete. The two volumes include monthly updates for the 46 sections and 27 application areas covered.

**Directory of Independent IBM PC Hardware & Software**

Vendor: PO Box 22  
 Bensalem, PA 19020  
 USA

Price: US\$ 29.95 as of Mar. 83  
 It has ? pages listing 300 programs  
 Programs are indexed by type

No more information available at this time.

**Guide des Programmes pour Micro-Ordinateurs**

Vendor: 6, rue Ancelle  
 92525 Neuilly  
 France

Price: FF 125.00 as of Dec. 82  
 It has 250 pages listing 1000+ programs  
 Programs are indexed by source, type, computer

The Guide des Programmes is a French directory of software available in France. There are very few listings of agricultural or statistical analysis programs. Each program entry has a 1 - 5 line description, computer type, hardware needed, price and the vendor. Although there seems to be relatively few software packages they are well cross indexed. With a few more additions this would be a valuable directory.

**Guide to Software**

Vendor: 2360 Bering Drive  
 San Jose, CA 95131  
 USA

Price: US\$ 5.00 as of Jan. 83  
 It has 90 pages listing 271 programs  
 Programs are indexed by vendor

This directory is for Altos compatible software. The sections of the directory are Operating Systems, Languages, Communications, Special Functions and Application Software. Each software package has a 1-5 line description, price, operating system requirements and vendor address. Nearly all software listed is for commercial applications such as accounting and no agricultural packages are listed.



**HP-80 Series Software Catalog**

Vendor: 1010 NE Circle Boulevard  
 Corvallis, Oregon 97330  
 USA

Price: US\$ 12.95 as of Sept. 82

It has 601 pages listing 527 programs

Programs are indexed by name, type and computer

A very useful catalog for HP owners. It is divided into HP programs and programs offered by persons other than HP. In general the program descriptions are good; a full page being devoted to each program. The major sections are Probability/Statistics and Business/Finance. Cross indexing is good.

**IBM PC Expansion & Software Guide**

Vendor: 7960 Castleway Drive  
 Indianapolis, Indiana 46250  
 USA

Price: US\$ 19.95 as of Oct. 82

It has 273 pages listing 448 programs

Programs are indexed by name, source and type

This is a hardware/software directory but also includes sections on periodicals, books, supplies, stores and users groups for the IBM PC. A very useful book for the IBM PC user. Each program description includes hardware requirements, a reasonably complete description of functions, the price and source. There is also advertising, a section with Spreadsheet examples and descriptions of several operating systems.

**ICP Software Directory**

Vendor: 9000 Keystone Crossing  
 Indianapolis, Indiana 46240  
 USA

Price: US\$ 19.95 as of Oct.83

It has 376 pages listing 1410 programs

Programs are indexed by name, type, source, computer

The ICP Software Directory is primarily intended for business software and includes some listings for minicomputers. The descriptions include a complete list of hardware supported, operating systems, number of units sold, sales agent, a short description of the software and its price. Entries from USA, Canada and England are included. The cross-referencing is good. It appears to be a very useful guide to business software.

**Index to CP/M Software**

Vendor: Box 5429  
 Santa Monica, California 90405  
 USA  
 Price: US\$ 10.00 as of Sept. 82  
 It has 20 pages listing 1688 programs  
 Programs are indexed by type

As a software directory this leaves much to be desired. The listing for each software package consists of a name (30 characters or less) and occasionally 11 characters of additional information such as operating system and price. An associated vendor number indicates where to write for more information. Hopefully future editions will include some description of the software so the reader can tell what Miracle, Star\*Trac or SAM do.

**Inventory of Agriculturally Oriented Software in Australia**

Vendor: Queensland Dept. Primary Indstrs  
 GPO Box 46  
 Brisbane 4001,  
 Australia  
 Price: A\$ 7.00 as of Dec 82  
 It has 233 pages listing 230 programs  
 Programs are indexed by source, type, computer, language

This directory is very well cross-indexed so it is not difficult to find something which can serve your purpose. The listings include software for micros, minis and mainframes. There are a total of 110 listings for microcomputers including quite a few for North Star computers. The program descriptions are brief but give enough information so that it is possible to select good candidates to write for more information. Perhaps the only problem is that some addresses are not as complete as they should be.

**List**

Vendor: PO Box 2905  
 Clinton, Iowa 52735  
 USA  
 Price: US\$ 12.50 as of Apr. 83  
 It has 400 pages listing 3000+ programs  
 Programs are indexed by type, computer, operating system.

List is a quarterly publication. The price shown is for one issue only. All types of software are included. Each program listing includes a short (2-3 words) description of the application type, systems for which it is available, a short description of its functions and the vendors address. Unfortunately most of the listings do not include any descriptions. There are also magazine type articles such as "What you should Expect from a Software Vendor" and "How to Choose a printer for Your Personal Computer". This is a new

directory and future issues may change contents.

**Micro-Computer Programs in Print**

Vendor: PO Box 1212  
Roanoke, VA 24006  
USA

Price: US\$ 19.95 as of Sept 83  
It has ? pages listing 2700 programs  
Programs are indexed by Program type, Computer

Micro-Computer Programs in Print covers business, education, personal, entertainment and systems software. It list over 2700 packages. No further information is available at this time.

**Microcomputer Market Place**

Vendor: Suite 23  
2248 Broadway  
New York, NY 10024  
USA

Price: US\$ 75.00 as of May 83  
It has ? pages listing ? programs  
Programs are indexed by ?

The microcomputer market place is a directory of both software and hardware vendors. No other information available at this time.

**Microcomputer Software Directory**

Vendor: Evelyn House  
62 Oxford Street  
London W1A 2HG  
G. Britian

Price: BrSt 19.95 as of Aug. 83  
It has ? pages listing 3100+ programs  
Programs are indexed by program name and type

No further information is available at this time.

**Microprocessor Software D.A.T.A. Book**

Vendor: P.O. Box 26875  
San Diego, CA 92126  
USA

Price: US\$ 120.00 as of Dec 82  
It has ? pages listing ? programs  
Programs are indexed by type

This directory is published semiannually. Software is classified by the type of microprocessor and then by name. Each software entry is described by the language used, hardware requirements, memory requirements and the usual vendor description.

**North Star Compatible Software Directory**

Vendor: North Star Computers, Inc.  
 14440 Catalina Street  
 San Leandro, California 94577  
 USA

Price: US\$ 5.00 as of Jan. 83  
 It has 54 pages listing 783 programs  
 Programs are indexed by source, type, US or foreign

This directory is simply a listing of vendor names and software names with no other description of what the packages do. At best it serves as a classified list of names and address of vendors where you can write for information. It does note several software packages in languages such as Icelandic, German, Afrikaans, Dutch and Danish. Where else can you find a Hebrew word processor? The lack of detail is balanced by the fact that it is the only directory for North Star software.

**Oasis Applications Software Directory**

Vendor: Suite 830  
 7700 Edgewater Drive  
 Oakland, CA 94621  
 USA

Price: US\$ 2.50 as of Aug. 83  
 It has 34 pages listing ? programs  
 Programs are indexed by source

The Oasis directory is mainly a listing of software producers with their products. A typical listing gives the company name and address plus a list of program names offered. In rare cases a 4-5 word description may follow a name. A total of 193 vendors are listed. As a directory it leaves much to be desired but since there are no competing Oasis directories it is the best for Oasis software.

**Online Micro-Software Guide & Directory 1983/84**

Vendor: 11 Tannery Lane  
 Weston, CT 06883  
 USA

Price: US\$ 40.00 as of June 83  
 It has 346 pages listing 733 programs  
 Programs are indexed by name, source, type

The Online directory has several short articles on software selection. The cross-reference indexes are not the best. The publisher forgot to cross-index the software by application area and had to print up a separate addendum for this. Each description includes the source, data released, price, application, hardware/operating system, documentation and a 1 - 10 line description. There are few statistical packages and agricultural software is included under Miscellaneous! It is not the best directory for agricultural uses.

**PC Clearinghouse Software Directory**

Vendor: 11781 Lee Jackson Highway  
 Fairfax, VA 22033  
 USA

Price: US\$ 29.95 as of June 83  
 It has 816 pages listing 21,042 programs  
 Programs are indexed by type, computer

The PC Clearinghouse Software Directory was previously known as the Software Vendors Directory. The five application areas covered are General Business, Programming Tools, Educational, Home & Personal use, and Specialized Vertical Market software. Within the application area the programs are classified by computer. The information on each program includes the vendors name, operating system and price. A separate section of the directory gives vendor addresses. The lack of even a minimal description of program function is a major problem. The most unusual aspect is that the actual program names are rarely given. This directory should be considered as a source of addresses for your mailing list.

**PC Software Buyers Guide**

Vendor: 1701 K St. NW #800  
 Washington, DC 20006  
 USA

Price: US\$ 39 as of Oct. 82  
 It has 0 pages listing ? programs  
 Programs are indexed by type

This is a catalog specializing in IBM PC products. It is in diskette form and needs Wordstar to read the files. In addition to software description there are comparison charts for spreadsheets, communications and word processors.

**Personal Software Directory**

Vendor: PO Box 426  
 Feeding Hills, Mass. 01030  
 USA

Price: US\$ 19.95 as of ?  
 It has ? pages listing ? programs  
 Programs are indexed by ?

No more information available at this time.

**Roseware Directory**

Vendor: Suite 323  
 1025 Gayley Ave.  
 Los Angeles, CA 90024  
 USA

Price: US\$ 30 as of May 83  
 It has 0 pages listing ? programs  
 Programs are indexed by ?

The Roseware Directory is a disk based directory of IBM PC products. Operation is menu-driven and includes a provision for printout of a mailing list of selected vendors. It requires an IBM PC with one disk drive and a printer.

**Sinclair Computer Family Source Book**

Vendor: PO Box 936  
 Norfolk, Virginia 23501  
 USA

Price: US\$ 8.20 as of Nov. 82  
 It has 99 pages listing 448 programs  
 Programs are indexed by type

In addition to software this directory lists books, magazines and hardware sources for Sinclair computers in the USA and Canada. Each software package is described by 1-7 lines of text, hardware requirements and its price. Most packages cost US\$ 4-5 for a listing or US\$ 10-20 for a cassette. None are over US\$ 100 ! Unfortunately there are few statistical packages for Sinclair computers. Maybe someone out there can add a few.

**Skarbeck Software Directory 2nd edition**

Vendor: 11990 Dorsett Rd.  
 Maryland Hts, MO 63043  
 USA

Price: US\$ 11.95 as of Sep 82  
 It has 435 pages listing 1053 programs  
 Programs are indexed by name, type

This directory is dedicated to the world of Apple software. The book is divided into ten sections: Business, Data Base, Education, Entertainment, Graphics, Home & Personal, Programming Aids & Utilities, Special Interest, Vertical Market and Word Processing. Each package is well described, some more completely than others. For the price this is one of the better Apple directories available.

**Small Computer Program Index**

Vendor: 21 Beechcroft Road  
 Bushey Herts 3D2 2JU  
 G. Britain

Price: Br St 15.00 as of Jan. 83  
 It has 32 pages listing 399 programs  
 Programs are indexed by name, type

This is a bimonthly directory of program listings which have appeared in magazines or books. Each entry is classified by name and type of software. A short 1 to 3 line description of the program functions is included plus the magazine or book source and the computer type. For the person who needs software but is blocked by customs problems with mailing cassettes or diskettes, this is an essential reference. The annual subscription is 15 Pounds. The Nov. 82 issue had 399 program sources in 32 pages.

**The Software Catalog: Microcomputers**

Vendor: 52 Vanderbilt Ave.  
 New York, NY 10017  
 USA

Price: US\$ 69.00 as of Jan. 83  
 It has 800 pages listing 10000+ programs  
 Programs are indexed by name, source, type, computer, O/S, etc

The price shown is for a single copy. There are at least two editions each year. It utilizes the ISPN (International Software Program Number) system to classify programs. In addition to very extensive cross referencing each software package description includes a 5-10 line description plus release date, price, operating systems, and hardware requirements. This directory is also available as an on-line database. It replaces the International Microcomputer Software Directory. Be certain to specify "microcomputer" in the title when ordering since the same publisher also has the Software Catalog: Minicomputers.

**Software-Auswahl leicht gemacht**

Vendor: Hans Pinsel Str. 2  
 8013 Haar bei Munchen  
 W. Germany

Price: DM 38.00 as of Aug. 83  
 It has 439 pages listing 2040 programs  
 Programs are indexed by name, type, computer, operate syst.

Software-Auswahl leicht gemacht is a German software directory. It is a well done directory with quite a few programs of agricultural interest. Each program entry has 2 - 20 lines of description, hardware requirements, operating system, price, author and sales office. Most packages are for CP/M or MP/M operating systems. The greatest number of programs are listed for Apple and Commodore computers. Although a few programs are adapted from US packages many appear to be original German offerings.

**Software/Hardware Directory & Ref. Guide for the IBM PC**

Vendor: PO Box 748  
 Quincy, Illinois 62301  
 USA

Price: US\$ 10.00 as of Oct. 82  
 It has ? pages listing ? programs  
 Programs are indexed by ?

**Sourcebook**

Vendor: 1807 Glenview Road  
 Glenview, Illinois 60025  
 USA

Price: US\$ 125.00 as of JUNE 83  
 It has 1004 pages listing 3000+ programs  
 Programs are indexed by name, source, type and computer

Although very many program listings are for mini-computers there are a few for Apple, Atari and TRS-80 microcomputers. These programs are definitely for larger business users since some software packages approach US\$20,000! Understandably most of the programs center around commercial applications, not scientific. It is not one of the better directories for agriculture. The 1983 edition is the same price as the 1982 edition but includes a 500 page supplement of 1700 more programs.

**TRS-80 Applications Software Sourcebook (Vol. III)**

Vendor: PO Box 17400  
 Fort Worth, Texas 76102  
 USA

Price: US\$ 1.95 as of Oct. 82  
 It has 383 pages listing 2330 programs  
 Programs are indexed by source and type

This gives a very brief three line description of each program plus information about system requirements and ordering information. Very useful directory considering the price. Many bargain programs for the Radio Shack model I.

**UCSD p-System Application Catalog**

Vendor: 9494 Black Mountain Road  
 San Diego, Calif. 92126  
 USA

Price: ? as of ?  
 It has 42 pages listing 140 programs  
 Programs are indexed by type

This is definitely not an exhaustive listing. There is only a fair description of each program.



**Updated Inventory of Agric. Computer Programs**

Vendor: U. of Florida  
 Gainesville, Florida 32611  
 USA

Price: free as of dec 82  
 It has 186 pages listing 639 programs  
 Programs are indexed by type, computer

This directory is a listing of programs for use by extension personnel and farmers which have been developed at US land grant universities. Although most have been tested and used in the field some are obviously still being debugged. A few have good documentation but most are poor. A strong point for these programs is that many are free to other universities if a diskette is supplied. The descriptions are very brief (36 characters long) but enough to give an idea of its function. It is an essential directory for agricultural extension microcomputer users.

**Van Love's Software Directory**

Vendor: 7899 Mastin Drive  
 Overland Park, Kansas 66204  
 USA

Price: US\$ 24.95 as of Oct. 82  
 It has 1070+ pages listing 2426 programs  
 Programs are indexed by type

Van Love's Software Directory Vol II is for the Apple II and III user. The major sections are Agriculture, Apple III, Business, Communications, CP/M, Data Base, Education, Engineering, Games, Graphics, Mailing List, Mathematics, Medical, Music, Personal, Programming, Special Interest, Time Sharing and Word Processing. The program descriptions vary from a few lines to 2 pages and sometimes include information on hardware requirements and price. There are good sections for agricultural and statistical software.

**Zenith Data Systems Software Directory**

Vendor: 1000 Milwaukee Avenue  
 Glenview, Illinois 60025  
 USA

Price: US\$ 25.00 as of Dec. 82  
 It has 602 pages listing 512 programs  
 Programs are indexed by type

The Zenith directory is a large directory and expensive to mail. There are 28 software classifications. Those of most interest are Data Base Systems, Graphics, Information Management, Statistics, Utilities and Word Processing. The software descriptions range from one line to a full page plus information on operating system, hardware required and formats provided. There is no price information for any of the programs.

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