

IBM 1401 Programming Systems

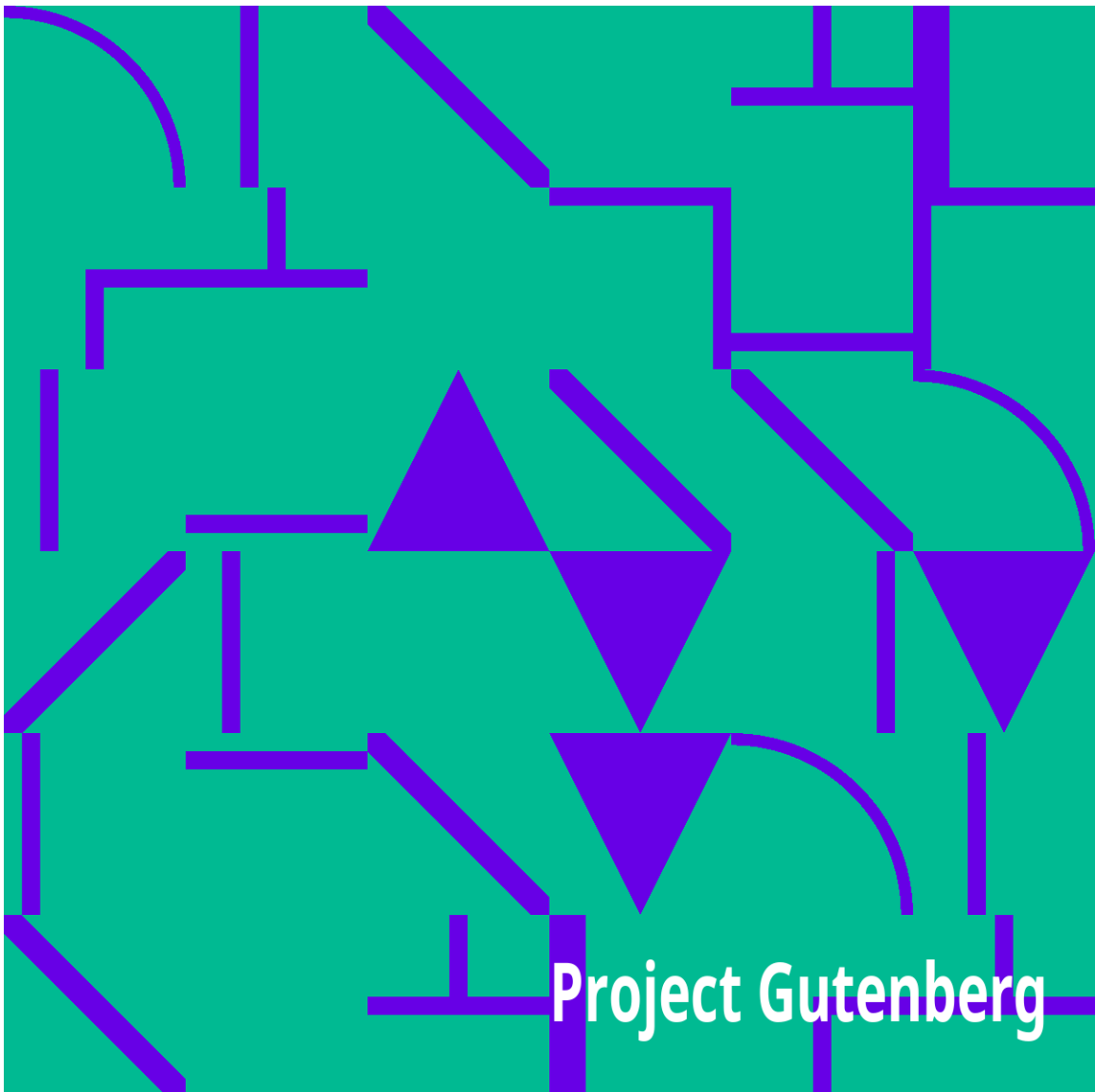
Anonymous



Project Gutenberg

IBM 1401 Programming Systems

Anonymous



Project Gutenberg

The Project Gutenberg EBook of IBM 1401 Programming Systems, by
Anonymous

This eBook is for the use of anyone anywhere at no cost and
with
almost no restrictions whatsoever. You may copy it, give it
away or
re-use it under the terms of the Project Gutenberg License
included
with this eBook or online at www.gutenberg.org

Title: IBM 1401 Programming Systems

Author: Anonymous

Release Date: December 9, 2008 [EBook #27468]

Language: English

*** START OF THIS PROJECT GUTENBERG EBOOK IBM 1401 PROGRAMMING
SYSTEMS ***

Produced by Gerard Arthus, Carla Foust and the Online
Distributed Proofreading Team at <http://www.pgdp.net>

Transcriber's note

Page 3: "Left" was changed to [Page 2](#) because of the e-text format.

**IBM 1401 Programming
Systems**

P

PR

PRO SYSTEMS

PROG YSTEMS

PROGR STEMS

PROGRA TEMS

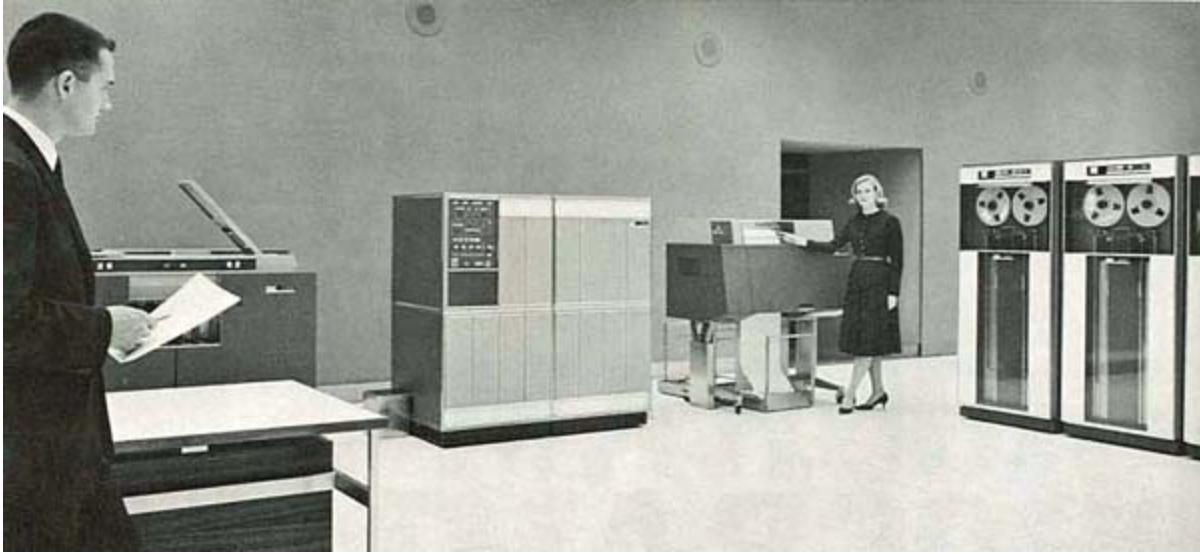
PROGRAM EMS

PROGRAMM MS

PROGRAMMI S

PROGRAMMIN

PROGRAMMING



When companies order an IBM 1401 Data Processing System, methods-programming staffs are given the responsibility of translating the requirements of management into finished applications. 1401 Programming Systems are helping cut the costs of getting the computer into operation by simplifying and expediting the work of these methods staffs.

Modern, high-speed computers, such as the 1401, are marvelous electronic instruments, but they represent only portions of data processing systems. Well-tested programming languages for communication with computers must accompany the systems. It is through these languages that the computer itself is used to perform many of the tedious functions that the programmer would otherwise have to perform. A few minutes of computer time in translating the program can be equal to many, many hours of staff time in writing instructions coded in the language of the computer.

The combination of a modern computer plus modern programming languages is the key to profitable data processing. This brochure

explains modern IBM Programming Languages and their significance to management.

Page [2](#): Here an operator points to machine language instructions for a new application being generated by the 1401 system on the 1403 high-speed printer. Statements about the application which were written by the programmer are being translated internally to machine-coded language.

"What Is A 1401 Program?"

A program is a series of instructions that direct the 1401 as it solves an application.

"What Is A Stored Program Machine?"

A stored program machine is one which stores its own instructions in magnetic form and is capable of acting on those instructions to complete the application assigned. The 1401 uses a stored program.

"What Are 1401 Programming Systems?"

There are two types: (1) Systems that provide the programmer with a simplified vocabulary of statements to use in writing programs, and (2) Pre-written programs, which take care of many of the everyday operations of the 1401.

What 1401 Programming Systems Mean To Management:

INCREASED PROGRAMMING EFFICIENCY

Programmers can concentrate on the application and results rather than on a multitude of "bookkeeping" functions, such as keeping track of storage locations.

FASTER TRANSLATION OF MANAGEMENT REQUIREMENTS INTO USABLE RESULTS

Simplified programming routines allow programmers to write more instructions in less time.

SHORTER TRAINING PERIODS

Programmers use a language more familiar to them rather than having to learn detailed machine codes.

REDUCED PROGRAMMING COSTS

Many pre-written programs are supplied by IBM, eliminating necessity of customers' staffs writing their own.

MORE AVAILABLE 1401 TIME

Pre-written programs have already been tested by IBM, reducing tedious checking operations on the computer.

EASIER TO UNDERSTAND PROGRAMS

Programs are written in symbolic or application-oriented form instead of computer language. This enables management to communicate more easily with the programming staff.

FASTER REPORTS ON OPERATIONS

Routines such as those designed for report writing permit faster translation of management requirements into usable information.

IBM Programming Systems

Symbolic Programming Systems

These systems permit programs to be written using meaningful names (symbols) rather than actual machine language.

Autocoder

This is an advanced symbolic programming system. It allows generation of multiple machine instructions from one source statement, free-form coding, and an automatic assembly process through magnetic tape.

COBOL

COBOL is a problem-oriented programming language for commercial applications.^[A] COBOL permits a programmer to use language based on English words and phrases in describing an application.

Input/Output Control System

This system provides the programmer with a packaged means of accomplishing input and output requirements.

Utility Programs

These are pre-written instructions to perform many of the everyday operations of an installation.

Subroutines

These are routines for multiplication, division, dozens conversion, and program error detection aids.

Tape Utilities

These are generalized instructions, particularly useful to 1401 customers who also use larger data processing systems. They

facilitate the transfer of data between IBM cards, magnetic tapes, and printers. They also provide for some 1401 processing while the transfer of data is taking place.

Tape Sort Programs

Data can be sorted and classified at high speed for further processing by use of these generalized sorting routines.

Report Program Generator

The programmer uses simplified, descriptive language with which he is already familiar to obtain reports swiftly and efficiently.

FORTTRAN (Contraction of FORmula TRANslator)

Engineers and mathematicians state problems in familiar algebraic language for solution by the computer.

RAMAC[®] File Organization

Routines are supplied for simplifying organization of records for storage in the 1401 Random Access File.

Here's how one of the 1401 programming systems—Report Program Generator—works to increase programming efficiency

1401 computers produce important reports for management in record time because of their outstanding processing and printing abilities. In addition to this rapid machine processing of *input data* used in reports, still more speed is achieved by the rapid preparation of *programs* to produce the reports. This is possible because of the IBM Report Program Generator, a unique system

which permits programs to be created with a minimum of time and effort.

This example illustrates how the Report Program Generator simplifies the preparation of one part of an Expense Distribution Report (The Major Total Line):

EXPENSE DISTRIBUTION REPORT						
				REPORT DATE 07-18-60	PAGE 1	
	OUR VOUCHER NUMBER	DATE		AMOUNT	AMOUNT BY ACCOUNT	AMOUNT BY DEPT.
		MO	DAY			
*** DEPT. NO. 041						
** GEN. LEDGER NO. 913						
* SUB. LEDGER NO. 660	12042	4	07	687.50		
	12084	2	14	721.92		
				1,409.42 *		
* SUB. LEDGER NO. 700						
	12125	11	23	675.95		
				675.95 *		
					2,085.37	
** GEN. LEDGER NO. 915						
* SUB. LEDGER NO. 760	12086	12	15	2,119.50		
				2,119.50 *		
					2,119.50	
						Major Total Line → 4,204.87

Without the Report Program Generator, the program to get the Major Total Line would be written out in detail, step by step:

LINE	COUNT	LABEL	OPERATION	(A) OPERAND				(B) OPERAND				D	COMMENTS
				ADDRESS	±	CHAR ADJ.	±	ADDRESS	±	CHAR ADJ.	±		
0.1.0	8	T31T00	B	T21T00				C	ØNF3			Ø	
0.2.0	7		MCW	ØNES				T	3				
0.3.0	4		B	T11									
0.4.0	4	T3I	CS	PRINT									
0.5.0	1		CS										
0.6.0	7		LCA	FLO20				Ø	297				
0.7.0	7		MCE	AMTDEP				Ø	297				
0.8.0	7		MCW	BLANKS				AMTDEP					
0.9.0	1	T3IEXTW											
1.0.0	7		MCW	SA010				Ø	FRTRN+003				
1.1.0	5		B	ØFRØUT								Ø	
1.2.0	4	T3IRTN	B	T0000									
1.3.0													

But with the Report Program Generator, all the programmer has to write are these two statements:

FORM	LINE	OUTPUT	NEXT LINE	SPACE	SKIP	LINE OUTPUT CONDITIONS			FIELD NAME	FIELD END	FIELD OUTPUT CONDITIONS			FIELD LENGTH	CONSTANT OR EDIT CONTROL WORD	CARD NUMBER
						COND. 1	COND. 2	COND. 3			COND. 1	COND. 2	COND. 3			
01	73	/X		Ø											0.1.0	
									AMTDEP	Ø97				Ø13bb,bbb,bb0.bb	0.2.0	
															0.3.0	

It's just as easy to write the statements to generate the rest of the report! The 1401 itself does the work of converting the programmers' statements into the detailed instructions. The Report Program Generator is an example of what IBM Programming Systems can accomplish.

With IBM you can be certain of total systems support for maximum profitability.

IBM®

Stands For Service

Service that begins long before the delivery of a computer ... and continues in depth long after. Service that has been *proven* by years of data processing experience.

New IBM Services include:

Programmed Applications Library

Pre-tested computer programs designed to handle various major data processing functions common to firms within a specific industry.

Programming Systems Support

To keep customers up-to-date on the availability and use of all new programming systems.

To assist the IBM programming staff in reflecting customer requirements in the specification of new programming systems.

Other services available to every IBM customer:

Program Library

A library of 1401 programs will be established to aid all 1401 customers in solving specific applications, scientific as well as commercial. These will include programs written by customers and programs written by IBM.

Schools and Seminars

Executive schools for management personnel.

Programming schools for methods personnel.

Industry seminars where customers meet to discuss subjects of common interest.

Branch Offices

More than 200 branch offices serve customer needs promptly and efficiently.

Sales and Systems Representatives

Experienced, highly trained individuals work with customers in applying IBM methods to their requirements.

These are just a few of the many IBM services. Your IBM Sales Representative will be pleased to discuss all of them with you.

International Business Machines Corporation
Data Processing Division, 112 East Post Road
White Plains, New York

FOOTNOTE:

[A] COBOL specifications were developed by the Conference on Data Systems Languages, a voluntary cooperative effort of users, and manufacturers of data processing systems.

End of Project Gutenberg's IBM 1401 Programming Systems, by
Anonymous

*** END OF THIS PROJECT GUTENBERG EBOOK IBM 1401 PROGRAMMING
SYSTEMS ***

***** This file should be named 27468-h.htm or 27468-h.zip

This and all associated files of various formats will be found
in:

<http://www.gutenberg.org/2/7/4/6/27468/>

Produced by Gerard Arthus, Carla Foust and the Online
Distributed Proofreading Team at <http://www.pgdp.net>

Updated editions will replace the previous one--the old
editions
will be renamed.

Creating the works from public domain print editions means that
no
one owns a United States copyright in these works, so the
Foundation
(and you!) can copy and distribute it in the United States
without
permission and without paying copyright royalties. Special
rules,
set forth in the General Terms of Use part of this license,
apply to
copying and distributing Project Gutenberg-tm electronic works
to
protect the PROJECT GUTENBERG-tm concept and trademark.
Project
Gutenberg is a registered trademark, and may not be used if you
charge for the eBooks, unless you receive specific permission.
If you
do not charge anything for copies of this eBook, complying with
the
rules is very easy. You may use this eBook for nearly any

purpose
such as creation of derivative works, reports, performances and
research. They may be modified and printed and given away--you
may do
practically ANYTHING with public domain eBooks. Redistribution
is
subject to the trademark license, especially commercial
redistribution.

*** START: FULL LICENSE ***

THE FULL PROJECT GUTENBERG LICENSE
PLEASE READ THIS BEFORE YOU DISTRIBUTE OR USE THIS WORK

To protect the Project Gutenberg-tm mission of promoting the
free
distribution of electronic works, by using or distributing this
work
(or any other work associated in any way with the phrase
"Project
Gutenberg"), you agree to comply with all the terms of the Full
Project
Gutenberg-tm License (available with this file or online at
<http://gutenberg.org/license>).

Section 1. General Terms of Use and Redistributing Project
Gutenberg-tm
electronic works

1.A. By reading or using any part of this Project Gutenberg-tm
electronic work, you indicate that you have read, understand,
agree to
and accept all the terms of this license and intellectual
property
(trademark/copyright) agreement. If you do not agree to abide
by all
the terms of this agreement, you must cease using and return or
destroy
all copies of Project Gutenberg-tm electronic works in your
possession.
If you paid a fee for obtaining a copy of or access to a
Project

Gutenberg-tm electronic work and you do not agree to be bound by the terms of this agreement, you may obtain a refund from the person or entity to whom you paid the fee as set forth in paragraph 1.E.8.

1.B. "Project Gutenberg" is a registered trademark. It may only be used on or associated in any way with an electronic work by people who agree to be bound by the terms of this agreement. There are a few things that you can do with most Project Gutenberg-tm electronic works even without complying with the full terms of this agreement. See paragraph 1.C below. There are a lot of things you can do with Project Gutenberg-tm electronic works if you follow the terms of this agreement and help preserve free future access to Project Gutenberg-tm electronic works. See paragraph 1.E below.

1.C. The Project Gutenberg Literary Archive Foundation ("the Foundation" or PGLAF), owns a compilation copyright in the collection of Project Gutenberg-tm electronic works. Nearly all the individual works in the collection are in the public domain in the United States. If an individual work is in the public domain in the United States and you are located in the United States, we do not claim a right to prevent you from copying, distributing, performing, displaying or creating derivative works based on the work as long as all references to Project Gutenberg are removed. Of course, we hope that you will support the Project Gutenberg-tm mission of promoting free access to electronic works by

freely sharing Project Gutenberg-tm works in compliance with the terms of this agreement for keeping the Project Gutenberg-tm name associated with the work. You can easily comply with the terms of this agreement by keeping this work in the same format with its attached full Project Gutenberg-tm License when you share it without charge with others.

1.D. The copyright laws of the place where you are located also govern what you can do with this work. Copyright laws in most countries are in a constant state of change. If you are outside the United States, check the laws of your country in addition to the terms of this agreement before downloading, copying, displaying, performing, distributing or creating derivative works based on this work or any other Project Gutenberg-tm work. The Foundation makes no representations concerning the copyright status of any work in any country outside the United States.

1.E. Unless you have removed all references to Project Gutenberg:

1.E.1. The following sentence, with active links to, or other immediate access to, the full Project Gutenberg-tm License must appear prominently whenever any copy of a Project Gutenberg-tm work (any work on which the phrase "Project Gutenberg" appears, or with which the phrase "Project Gutenberg" is associated) is accessed, displayed, performed, viewed, copied or distributed:

This eBook is for the use of anyone anywhere at no cost and

with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this eBook or online at www.gutenberg.org

1.E.2. If an individual Project Gutenberg-tm electronic work is derived from the public domain (does not contain a notice indicating that it is posted with permission of the copyright holder), the work can be copied and distributed to anyone in the United States without paying any fees or charges. If you are redistributing or providing access to a work with the phrase "Project Gutenberg" associated with or appearing on the work, you must comply either with the requirements of paragraphs 1.E.1 through 1.E.7 or obtain permission for the use of the work and the Project Gutenberg-tm trademark as set forth in paragraphs 1.E.8 or 1.E.9.

1.E.3. If an individual Project Gutenberg-tm electronic work is posted with the permission of the copyright holder, your use and distribution must comply with both paragraphs 1.E.1 through 1.E.7 and any additional terms imposed by the copyright holder. Additional terms will be linked to the Project Gutenberg-tm License for all works posted with the permission of the copyright holder found at the beginning of this work.

1.E.4. Do not unlink or detach or remove the full Project Gutenberg-tm License terms from this work, or any files containing a part of this work or any other work associated with Project Gutenberg-tm.

1.E.5. Do not copy, display, perform, distribute or redistribute this electronic work, or any part of this electronic work, without prominently displaying the sentence set forth in paragraph 1.E.1 with active links or immediate access to the full terms of the Project Gutenberg-tm License.

1.E.6. You may convert to and distribute this work in any binary, compressed, marked up, nonproprietary or proprietary form, including any word processing or hypertext form. However, if you provide access to or distribute copies of a Project Gutenberg-tm work in a format other than "Plain Vanilla ASCII" or other format used in the official version posted on the official Project Gutenberg-tm web site (www.gutenberg.org), you must, at no additional cost, fee or expense to the user, provide a copy, a means of exporting a copy, or a means of obtaining a copy upon request, of the work in its original "Plain Vanilla ASCII" or other form. Any alternate format must include the full Project Gutenberg-tm License as specified in paragraph 1.E.1.

1.E.7. Do not charge a fee for access to, viewing, displaying, performing, copying or distributing any Project Gutenberg-tm works unless you comply with paragraph 1.E.8 or 1.E.9.

1.E.8. You may charge a reasonable fee for copies of or providing access to or distributing Project Gutenberg-tm electronic works provided that

- You pay a royalty fee of 20% of the gross profits you derive from

the use of Project Gutenberg-tm works calculated using the method you already use to calculate your applicable taxes. The fee is owed to the owner of the Project Gutenberg-tm trademark, but he has agreed to donate royalties under this paragraph to the Project Gutenberg Literary Archive Foundation. Royalty payments must be paid within 60 days following each date on which you prepare (or are legally required to prepare) your periodic tax returns. Royalty payments should be clearly marked as such and sent to the Project Gutenberg Literary Archive Foundation at the address specified in Section 4, "Information about donations to the Project Gutenberg Literary Archive Foundation."

- You provide a full refund of any money paid by a user who notifies you in writing (or by e-mail) within 30 days of receipt that s/he does not agree to the terms of the full Project Gutenberg-tm License. You must require such a user to return or destroy all copies of the works possessed in a physical medium and discontinue all use of and all access to other copies of Project Gutenberg-tm works.

- You provide, in accordance with paragraph 1.F.3, a full refund of any money paid for a work or a replacement copy, if a defect in the electronic work is discovered and reported to you within 90 days of receipt of the work.

- You comply with all other terms of this agreement for free distribution of Project Gutenberg-tm works.

1.E.9. If you wish to charge a fee or distribute a Project Gutenberg-tm electronic work or group of works on different terms than are set forth in this agreement, you must obtain permission in writing from both the Project Gutenberg Literary Archive Foundation and Michael Hart, the owner of the Project Gutenberg-tm trademark. Contact the Foundation as set forth in Section 3 below.

1.F.

1.F.1. Project Gutenberg volunteers and employees expend considerable effort to identify, do copyright research on, transcribe and proofread public domain works in creating the Project Gutenberg-tm collection. Despite these efforts, Project Gutenberg-tm electronic works, and the medium on which they may be stored, may contain "Defects," such as, but not limited to, incomplete, inaccurate or corrupt data, transcription errors, a copyright or other intellectual property infringement, a defective or damaged disk or other medium, a computer virus, or computer codes that damage or cannot be read by your equipment.

1.F.2. LIMITED WARRANTY, DISCLAIMER OF DAMAGES - Except for the "Right of Replacement or Refund" described in paragraph 1.F.3, the Project Gutenberg Literary Archive Foundation, the owner of the Project Gutenberg-tm trademark, and any other party distributing a Project Gutenberg-tm electronic work under this agreement, disclaim all liability to you for damages, costs and expenses, including legal fees. YOU AGREE THAT YOU HAVE NO REMEDIES FOR NEGLIGENCE, STRICT LIABILITY, BREACH OF WARRANTY OR BREACH OF CONTRACT EXCEPT

THOSE

PROVIDED IN PARAGRAPH F3. YOU AGREE THAT THE FOUNDATION, THE TRADEMARK OWNER, AND ANY DISTRIBUTOR UNDER THIS AGREEMENT WILL NOT BE

LIABLE TO YOU FOR ACTUAL, DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE OR

INCIDENTAL DAMAGES EVEN IF YOU GIVE NOTICE OF THE POSSIBILITY OF SUCH DAMAGE.

1.F.3. LIMITED RIGHT OF REPLACEMENT OR REFUND - If you discover a defect in this electronic work within 90 days of receiving it, you can receive a refund of the money (if any) you paid for it by sending a written explanation to the person you received the work from. If you received the work on a physical medium, you must return the medium with your written explanation. The person or entity that provided you with the defective work may elect to provide a replacement copy in lieu of a refund. If you received the work electronically, the person or entity providing it to you may choose to give you a second opportunity to receive the work electronically in lieu of a refund. If the second copy is also defective, you may demand a refund in writing without further opportunities to fix the problem.

1.F.4. Except for the limited right of replacement or refund set forth in paragraph 1.F.3, this work is provided to you 'AS-IS' WITH NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

1.F.5. Some states do not allow disclaimers of certain implied warranties or the exclusion or limitation of certain types of damages.

If any disclaimer or limitation set forth in this agreement violates the law of the state applicable to this agreement, the agreement shall be interpreted to make the maximum disclaimer or limitation permitted by the applicable state law. The invalidity or unenforceability of any provision of this agreement shall not void the remaining provisions.

1.F.6. INDEMNITY - You agree to indemnify and hold the Foundation, the trademark owner, any agent or employee of the Foundation, anyone providing copies of Project Gutenberg-tm electronic works in accordance with this agreement, and any volunteers associated with the production, promotion and distribution of Project Gutenberg-tm electronic works, harmless from all liability, costs and expenses, including legal fees, that arise directly or indirectly from any of the following which you do or cause to occur: (a) distribution of this or any Project Gutenberg-tm work, (b) alteration, modification, or additions or deletions to any Project Gutenberg-tm work, and (c) any Defect you cause.

Section 2. Information about the Mission of Project Gutenberg-tm

Project Gutenberg-tm is synonymous with the free distribution of electronic works in formats readable by the widest variety of computers including obsolete, old, middle-aged and new computers. It exists because of the efforts of hundreds of volunteers and donations from people in all walks of life.

Volunteers and financial support to provide volunteers with the assistance they need, is critical to reaching Project Gutenberg-tm's goals and ensuring that the Project Gutenberg-tm collection will remain freely available for generations to come. In 2001, the Project Gutenberg Literary Archive Foundation was created to provide a secure and permanent future for Project Gutenberg-tm and future generations. To learn more about the Project Gutenberg Literary Archive Foundation and how your efforts and donations can help, see Sections 3 and 4 and the Foundation web page at <http://www.pgla.org>.

Section 3. Information about the Project Gutenberg Literary Archive Foundation

The Project Gutenberg Literary Archive Foundation is a non profit 501(c)(3) educational corporation organized under the laws of the state of Mississippi and granted tax exempt status by the Internal Revenue Service. The Foundation's EIN or federal tax identification number is 64-6221541. Its 501(c)(3) letter is posted at <http://pglaf.org/fundraising>. Contributions to the Project Gutenberg Literary Archive Foundation are tax deductible to the full extent permitted by U.S. federal laws and your state's laws.

The Foundation's principal office is located at 4557 Melan Dr. S. Fairbanks, AK, 99712., but its volunteers and employees are scattered throughout numerous locations. Its business office is located at 809 North 1500 West, Salt Lake City, UT 84116, (801) 596-1887, email

business@pglaf.org. Email contact links and up to date contact information can be found at the Foundation's web site and official page at <http://pglaf.org>

For additional contact information:

Dr. Gregory B. Newby
Chief Executive and Director
gbnewby@pglaf.org

Section 4. Information about Donations to the Project Gutenberg Literary Archive Foundation

Project Gutenberg-tm depends upon and cannot survive without wide spread public support and donations to carry out its mission of increasing the number of public domain and licensed works that can be freely distributed in machine readable form accessible by the widest array of equipment including outdated equipment. Many small donations (\$1 to \$5,000) are particularly important to maintaining tax exempt status with the IRS.

The Foundation is committed to complying with the laws regulating charities and charitable donations in all 50 states of the United States. Compliance requirements are not uniform and it takes a considerable effort, much paperwork and many fees to meet and keep up with these requirements. We do not solicit donations in locations where we have not received written confirmation of compliance. To SEND DONATIONS or determine the status of compliance for any particular state visit <http://pglaf.org>

While we cannot and do not solicit contributions from states where we have not met the solicitation requirements, we know of no

prohibition
against accepting unsolicited donations from donors in such
states who
approach us with offers to donate.

International donations are gratefully accepted, but we cannot
make
any statements concerning tax treatment of donations received
from
outside the United States. U.S. laws alone swamp our small
staff.

Please check the Project Gutenberg Web pages for current
donation
methods and addresses. Donations are accepted in a number of
other
ways including checks, online payments and credit card
donations.
To donate, please visit: <http://pglaf.org/donate>

Section 5. General Information About Project Gutenberg-tm
electronic
works.

Professor Michael S. Hart is the originator of the Project
Gutenberg-tm
concept of a library of electronic works that could be freely
shared
with anyone. For thirty years, he produced and distributed
Project
Gutenberg-tm eBooks with only a loose network of volunteer
support.

Project Gutenberg-tm eBooks are often created from several
printed
editions, all of which are confirmed as Public Domain in the
U.S.
unless a copyright notice is included. Thus, we do not
necessarily
keep eBooks in compliance with any particular paper edition.

Most people start at our Web site which has the main PG search

facility:

<http://www.gutenberg.org>

This Web site includes information about Project Gutenberg-tm, including how to make donations to the Project Gutenberg Literary Archive Foundation, how to help produce our new eBooks, and how to subscribe to our email newsletter to hear about new eBooks.