

 **DIGITAL RESEARCH™**

CP/M® 2.2 SOURCE LISTINGS

Copyright (c) 1980

Digital Research, Inc.
P.O. Box 579
160 Central Avenue
Pacific Grove, CA 93950
(408) 649-3896
TWX 910 360 5001

All Rights Reserved

CP/M® 2.2 SYSTEM SOURCE LISTINGS

Copyright (c) 1980 by Digital Research. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission of Digital Research, Post Office Box 579, Pacific Grove, California, 93950.

DISCLAIMER

Digital Research makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Further, Digital Research reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of Digital Research to notify any person of such revision or changes.

NOTICE

The source listings included in this document are **PROPRIETARY**, and must be protected by the customer from copying and abstraction, as specified in the **DIGITAL RESEARCH SOFTWARE LICENSE AGREEMENT**. All Digital Research software source programs, machine code programs, and manuals are protected by copyright. That means it is illegal to make any copy of all or part of a Digital Research program, whether of source code or object code, to translate a Digital Research program (for example by using an assembler or a compiler), to load or execute a Digital Research program, or to derive your own version of a Digital Research program, without the written permission of Digital Research.

Digital Research customers who wish to do these things can generally obtain written permission to do so: Digital Research licenses its proprietary software with several standard customer agreements. These agreements grant permission to exercise the copyrights that are required by the intended use of the product.

If your **LICENSE AGREEMENT** does not seem to grant you a permission you require, please contact Digital Research, Post Office Box 579, Pacific Grove, California 93950.

COPYRIGHT © 1980
DIGITAL RESEARCH, INC.
P. O. BOX 579
PACIFIC GROVE, CA 93950

DIGITAL RESEARCH
Box 579, Pacific Grove, California 93950
SOFTWARE LICENSE AGREEMENT

IMPORTANT: All Digital Research programs are sold only on the condition that the purchaser agrees to the following license. **READ THIS LICENSE CAREFULLY.** If you do not agree to the terms contained in this license, return the packaged diskette **UNOPENED** to your distributor and your purchase price will be refunded. If you agree to the terms contained in this license, fill out the **REGISTRATION** information and **RETURN** by mail.

DIGITAL RESEARCH agrees to grant and the Customer agrees to accept on the following terms and conditions nontransferable and nonexclusive licenses to use the software program(s) (Licensed Programs) herein delivered with this agreement.

TERM:

This agreement is effective from the date of receipt of the above-referenced program(s) and shall remain in force until terminated by the Customer upon one month's prior written notice, or by Digital Research as provided below.

Any license under this Agreement may be discontinued by the Customer at any time upon one month's prior written notice. Digital Research may discontinue any license or terminate this Agreement if the Customer fails to comply with any of the terms and conditions of this Agreement.

LICENSE:

Each program license granted under this Agreement authorizes the Customer to use the Licensed Program in any machine readable form on any single computer system (referred to as System). A separate license is required for each System on which the Licensed Program will be used.

This agreement and any of the licenses, programs or materials to which it applies may not be assigned, sublicensed or otherwise transferred by the Customer without prior written consent from Digital Research. No right to print or copy, in whole or in part, the Licensed Programs is granted except as hereinafter expressly provided.

PERMISSION TO COPY OR MODIFY LICENSED PROGRAMS:

The customer shall not copy, in whole or in part, any Licensed Programs which are provided by Digital Research in printed form under this Agreement. Additional copies of printed materials may be acquired from Digital Research.

Any Licensed Programs which are provided by Digital Research in machine readable form may be copied, in whole or in part, in printed machine readable form in sufficient number for use by the Customer with the designated System, to understand the contents of such machine readable material, to modify the Licensed Program as provided below, for back-up purposes, or for archive purposes, provided, however, that no more than five (5) printed copies will be in existence under any license at any one time without prior written consent from Digital Research. The Customer agrees to maintain appropriate records of the number and location of all such copies of Licensed Programs. The original, and any copies of the Licensed

Programs, in whole or in part, which are made by the Customer shall be the property of Digital Research. This does not imply, of course, that Digital Research owns the media on which the Licensed Programs are recorded. The Customer may modify any machine readable form of the Licensed Programs for his own use and merge it into other program material to form an updated work, provided that, upon discontinuance of the license for such Licensed Program, the Licensed Program supplied by Digital Research will be completely removed from the updated work. Any portion of the Licensed Program included in an updated work shall be used only if on the designated System and shall remain subject to all other terms of this Agreement.

The Customer agrees to reproduce and include the copyright notice of Digital Research on all copies, in whole or in part, in any form, including partial copies of modifications, of Licensed Programs made hereunder.

PROTECTION AND SECURITY:

The Customer agrees not to provide or otherwise make available any Licensed Program including but not limited to program listings, object code and source code, in any form, to any person other than Customer or Digital Research employees, without prior written consent from Digital Research, except with the Customer's permission for purposes specifically related to the Customer's use of the Licensed Program.

DISCONTINUANCE:

Within one month after the date of discontinuance of any license under this Agreement, the Customer will furnish Digital Research a certificate certifying that through his best effort, and to the best of his knowledge, the original and all copies, in whole or in part, in any form, including partial copies in modifications, of the Licensed Program received from Digital Research or made in connection with such license have been destroyed, except that, upon prior written authorization from Digital Research, the Customer may retain a copy for archive purposes.

DISCLAIMER OF WARRANTY:

Digital Research makes no warranties with respect to the Licensed Programs. The sole obligation of Digital Research shall be to make available all published modifications or updates made by Digital Research to Licensed Programs which are published within one (1) year from date of purchase, provided Customer has returned the Registration Card delivered with the Licensed Program.

LIMITATION OF LIABILITY:

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL DIGITAL RESEARCH BE LIABLE FOR CONSEQUENTIAL DAMAGES EVEN IF DIGITAL RESEARCH HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

GENERAL:

If any of the provisions, or portions thereof, of this Agreement are invalid under any applicable statute or rule of law, they are to that extent to be deemed omitted.

TABLE OF CONTENTS

MDS Cold Start Loader
Console Command Processor
Basic Disk Operating System
MDS Basic I/O System
XSUB Relocator
XSUB Module
Transient Interface Module
Peripheral Interchange Program
SUBMIT Processor
System Status Program
Context Editor Program
Hex File Loader Program
CP/M 2.2 Relocator Module
System Generation Program
ASM Common Data Module
ASM I/O Module
ASM Scanner Module
ASM Symbol Table Module
ASM Table Search Module
ASM Operand Scan Module
ASM Main Module
DDT Relocator Module
DDT Assembler/Disassembler
DDT Main Module
ED Memory Move Patch
Deblocking Algorithms