
Harlequin MultiRIP™

List of Technical Notes

Supplementary Technical Note

April 2015

1 Current technical notes*

Number	Subject	Notes	Frame Doc?	Ver	Date
Hqn002	Getting the best out of HPS	–	Yes	1.5	2001.06.11
Hqn012	Font Encryption	–	Yes	1.2	2001.06.07
Hqn013	PostScript Language Utilities	–	Yes	1.4	2001.06.22
Hqn014	Changing default dialog values	–	No	2.0	2007.09.26
Hqn015	Harlequin Screening Library	–	Yes	1.10	2006.01.17
Hqn017	The Harlequin Error Handler	–	Yes	1.2	2006.10.04
Hqn020	Morisawa font support	–	Yes	1.3	2007.09.25
Hqn021	Information for new OEMs	O	No	4.0	2014.07.07
Hqn023	Page and Separation Features	–	Yes	1.3	2001.06.18
Hqn027	Adding spot functions to the RIP	–	No	1.5	2001.06.14
Hqn030	Job Names	–	Yes	1.4	2005.01.06
Hqn042	Developing color plugins for the Harlequin RIP	–	No	1.3	2001.06.18
Hqn043	Developing ProofReady Plugins	–	No	1.7	2011.04.12
Hqn050	Supplying Password Files	–	Yes	1.1	2009.11.01
Hqn052	HQCRYPT Font encryption utility	–	No	1.1	2009.13.03
Hqn053	Controlling TrapPro from PostScript LanguageLevel 3	–	No	2.7	2010.04.14
Hqn054	Using Control Strips when proofing	–	Yes	1.3	2011.06.02
Hqn056	Encryption Library	–	No	1.0	2004.02.05
Hqn057	Precision Screening Library	–	No	1.1	2006.08.30
Hqn059	Ordering RIP Products, Including Try Before You Buy Options	–	No	1.1	2005.01.14
Hqn060	Harlequin RIP/HLS Configurations	–	No	2.0	2005.02.04

Number	Subject	Notes	Frame Doc?	Ver	Date
Hqn061	Using Threshold Screens	–	No	2.0	2007.09.14
Hqn064	Installing Harlequin License Server/Manager	–	No	1.1	2005.01.18
Hqn065	Using and modifying Font Emulation	–	No	1.2	2005.09.26
Hqn066	Solving Socket Connection Issues	–	Yes	1.0	2005.09.27
Hqn067	YMix Compression/Decompression Algorithm	D	No	1.0	2006.01.05
Hqn068	Command Line Options	–	Yes	1.4	2009.09.01
Hqn069	Order of processes in color management	–	No	1.0	2006.08.17
Hqn075	Using the InstallAnywhere Unloader	–	No	1.4	2010.09.14
Hqn076	Integrate and configure screening modules	–	Yes	1.0	2008.01.01
Hqn077	HXM Screening	–	Yes	2.0	2015.03.23
Hqn079	Building PDF/VT compliant systems using the Harlequin RIP	–	No	2.0	2010.10.15
Hqn081	Push Calibration	–	Yes	1.5	2015.02.23
Hqn083	Preparing color proofs for Fogra certification	–	Yes	1.0	2011.09.06
Hqn085	Host Renderer security	D	No	1.0	2011.10.04
Hqn088	The PrintTicket Device	–	Yes	1.0	2012.12.05
Hqn089	Securing Multiple RIPs using the LDK	–	No	2.0	2014.12.11
Hqn090	Halftone Raster Packing	–	No	1.0	2013.12.02

*. **Please Note:** The information in this document is intended for use by Harlequin MultiRIP™ OEMs only. The information is provided on a commercial-in-confidence basis and should not be revealed to third parties without the prior written permission of an authorized representative of Global Graphics.

Number	Subject	Notes	Frame Doc?	Ver	Date
Hqn091	LDK tools and Utilities	–	Yes	2.0	2015.03.30
Hqn092	GGSL installers explained	–	No	1.0	2014.12.03
Hqn093	Variable cross-over points for multi-bit screening	–	No	1.0	2014.11.25

Notes:

- D This note is for restricted access and available on request only.
- E This note is intended for use by Evaluators rather than OEMs.
- R This note has been retired
- O This note will be released to OEMs only, not to Evaluators.

The “Frame Format?” column describes whether this note is available in FrameMaker format. If the contents of the technical note may be incorporated into an OEM’s own documentation, a FrameMaker MIF document is made available.

2 Retired technical notes

The following notes have been withdrawn because the information they contain is no longer relevant or has been incorporated into another document.

Number	Subject	Notes	Frame Doc?	Ver	Date
<i>Hqn001</i>	<i>Using Composite fonts with the Harlequin RIP</i>	<i>R</i>	<i>Yes</i>	<i>1.3</i>	<i>2001.06.11</i>
<i>Hqn003</i>	<i>Windows Disk Performance</i>	<i>R</i>	<i>No</i>	<i>1.1</i>	<i>2001.06.20</i>
<i>Hqn004</i>	<i>Tiff Device (3.2)</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>94.10.24</i>
<i>Hqn005M</i>	<i>Macintosh GPVI Card Settings</i>	<i>R</i>	<i>No</i>	<i>1.3</i>	<i>2001.06.11</i>
<i>Hqn006</i>	<i>PC Interface Card Settings (HighWater and Ultre)</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>94.09.15</i>
<i>Hqn007PM</i>	<i>Installation for Power Macintosh 3.2 Revision 25P Only</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>94.07.26</i>

<i>Hqn007M</i>	<i>Installation for Macintosh and Power Macintosh (3.2 & 3.3)</i>	<i>R</i>	<i>Yes</i>	<i>2.1</i>	<i>94.12.23</i>
<i>Hqn007N</i>	<i>Installation for Windows NT (3.2 & 3.3)</i>	<i>R</i>	<i>Yes</i>	<i>2.1</i>	<i>94.12.23</i>
<i>Hqn007P</i>	<i>Installation for Windows 3.1 (3.2)</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>94.08.18</i>
<i>Hqn008</i>	<i>Recommended PC Specifications</i>	<i>R</i>	<i>Yes</i>	<i>1.0</i>	<i>94.04.10</i>
<i>Hqn009</i>	<i>Performance Hints for evaluators</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>2001.06.11</i>
<i>Hqn010N</i>	<i>Configuring the Windows NT installer</i>	<i>R</i>	<i>No</i>	<i>1.4</i>	<i>96.06.06</i>
<i>Hqn010P</i>	<i>Configuring the Windows 3.1 installer</i>	<i>R</i>	<i>No</i>	<i>1.4</i>	<i>96.06.06</i>
<i>Hqn011</i>	<i>FireWorks</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>2000.06.07</i>
<i>Hqn016</i>	<i>Harlequin PelBox interface card for Macintosh</i>	<i>R</i>	<i>No</i>	<i>1.1</i>	<i>2001.06.12</i>
<i>Hqn018</i>	<i>The TIFF device for 3.3</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>94.11.11</i>
<i>Hqn019</i>	<i>Intel Pentium Chips</i>	<i>R</i>	<i>No</i>	<i>1.1</i>	<i>2001.06.11</i>
<i>Hqn022</i>	<i>Harlequin Multiple Device Plugin for the PC Manual Installation for Harlequin RIP</i>	<i>Rc</i>	<i>Yes</i>	<i>1.5</i>	<i>2001.06.13</i>
<i>Hqn024</i>	<i>Running the Harlequin RIP under Windows NT</i>	<i>R</i>	<i>Yes</i>	<i>1.3</i>	<i>2001.06.13</i>
<i>Hqn025</i>	<i>The RTLdev plugin</i>	<i>Rc</i>	<i>No</i>	<i>1.3</i>	<i>2001.06.13</i>
<i>Hqn026</i>	<i>The GenLin utility program</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>2001.06.14</i>
<i>Hqn028</i>	<i>Harlequin Multiple Device Plugin for the PC Manual Installation for the Harlequin RIP</i>	<i>Rc</i>	<i>No</i>	<i>1.5</i>	<i>2001.06.15</i>
<i>Hqn029</i>	<i>Loading Page Setups from PostScript[®]</i>	<i>R</i>	<i>Yes</i>	<i>1.0</i>	<i>96.07.01</i>
<i>Hqn031</i>	<i>Using third party color rendering dictionaries.</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>2002.11.08</i>
<i>Hqn032</i>	<i>Calling TIFF/IT-P1 files from PostScript</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>2001.06.11</i>

<i>Hqn033</i>	<i>Controlling EasyTrap™ from a PostScript file</i>	<i>R</i>	<i>Yes</i>	<i>1.3</i>	<i>2001.06.15</i>
<i>Hqn034</i>	<i>File formats for calibration devices interfacing to Script-Works</i>	<i>Re</i>	<i>No</i>	<i>1.2</i>	<i>2011.03.29</i>
<i>Hqn035</i>	<i>Controlling Separations^b</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>2001.06.19</i>
<i>Hqn036</i>	<i>Using ICC Profiles in HCPS</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>2002.11.14</i>
<i>Hqn037</i>	<i>Color Rendering Intents</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>2002.11.08</i>
<i>Hqn038</i>	<i>Controlling EasyTrap and TrapWorks from PostScript® LanguageLevel 3</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>2001.06.15</i>
<i>Hqn039</i>	<i>Named Color Databases</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>2001:06:15</i>
<i>Hqn040</i>	<i>Configuring the Migrate Utility</i>	<i>R</i>	<i>No</i>	<i>1.2</i>	<i>2001.06.18</i>
<i>Hqn041</i>	<i>Profiles, Calibration and Color Management for the Epson 5000^c</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>2001.06.28</i>
<i>Hqn044</i>	<i>This doc is not relevant to the Harlequin RIP</i>	<i>R</i>	<i>–</i>	<i>–</i>	
<i>Hqn045</i>	<i>Controlling TrapWorks from PostScript® LanguageLevel 3</i>	<i>R</i>	<i>No</i>	<i>1.0</i>	<i>2001.03.01</i>
<i>Hqn046</i>	<i>Using Error Diffusion Screening</i>	<i>–</i>	<i>Yes</i>	<i>3.0</i>	<i>2011.06.13</i>
<i>Hqn047</i>	<i>Time Expiring Dongles</i>	<i>R</i>	<i>No</i>	<i>1.0</i>	<i>2001.11.08</i>
<i>Hqn048</i>	<i>This doc is not relevant to the Harlequin RIP</i>	<i>R</i>	<i>–</i>	<i>–</i>	<i>–</i>
<i>Hqn049</i>	<i>Controlling TrapMaster Programmatically</i>	<i>R</i>	<i>No</i>	<i>1.3</i>	<i>2002.11.15</i>
<i>Hqn051</i>	<i>Plugin Function Interface.</i>	<i>Re</i>	<i>No</i>	<i>1.2</i>	<i>2006.10.03</i>
<i>Hqn055</i>	<i>Customizing Warehouse Distributions</i>	<i>R</i>	<i>Yes</i>	<i>1.1</i>	<i>2005.04.12</i>
<i>Hqn058</i>	<i>DI Plugin</i>	<i>Rc</i>	<i>No</i>	<i>1.0</i>	<i>2003.12.01</i>
<i>Hqn062</i>	<i>Configuring the Harlequin RIP for the Altona Test Suite</i>	<i>R</i>	<i>Yes</i>	<i>1.2</i>	<i>2009.04.09</i>
<i>Hqn063</i>	<i>Using Windows XP SP2</i>	<i>R</i>	<i>No</i>	<i>1.1</i>	<i>2005.01.05</i>
<i>Hqn071</i>	<i>AppleTalk Input for PPM</i>	<i>R</i>	<i>Yes</i>	<i>1.0</i>	<i>2006.10.04</i>

<i>Hqn072</i>	<i>Using the Harlequin RIP on Windows Vista</i>	<i>R</i>	<i>Yes</i>	<i>1.0</i>	<i>2007.02.21</i>
<i>Hqn073</i>	<i>The jam build system (moved to Embedded technotes)</i>	<i>R</i>	<i>No</i>	<i>1.0</i>	<i>2007.09.06</i>
<i>Hqn074</i>	<i>Porting source code (moved to Embedded technotes)</i>	<i>R</i>	<i>No</i>	<i>1.0</i>	<i>2007.09.06</i>
<i>Hqn078</i>	<i>PDF Retained Raster</i>	<i>R</i>	<i>Yes</i>	<i>1.3</i>	<i>2011.05.12</i>
<i>Hqn082</i>	<i>The ROM data resource system</i>	<i>Rd</i>	<i>No</i>	<i>3.0</i>	<i>2011.30.11</i>
<i>Hqn084</i>	<i>The timeline API</i>	<i>Rd</i>	<i>No</i>	<i>1.0</i>	<i>2011.11.29</i>
<i>Hqn086</i>	<i>The Timer library</i>	<i>Rd</i>	<i>No</i>	<i>1.0</i>	<i>2011.01.12</i>
<i>Hqn087</i>	<i>Harlequin VariData</i>	<i>Rd</i>	<i>No</i>	<i>3.0</i>	<i>2011.08.20</i>

- a. Code from this Technical Note is no longer valid, but is replaced with Hqn-Control Procset described in the Harlequin RIP Extensions manual.
- b. The information in the Technical Note is now included in the *Extensions* manual.
- c. The plugin described in this document no longer exists.
- d. The information in the Technical Note is now included in the *API Reference* manual.
- e. The information in the Technical Note is now included in the *Plugin Kit* manual.



Copyright and Trademarks

Harlequin RIP: List of Technical Note

April 2015

Part number: GG.HQRIP-TECHNOTES

Document issue: 121

Copyright © 2015 Global Graphics Software Ltd and its licensors. All Rights Reserved.

Global Graphics Software Ltd. Confidential Information.

Certificate of Computer Registration of Computer Software.

Registration No. 2006SR05517

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Global Graphics Software Ltd.

The information in this publication is provided for information only and is subject to change without notice. This publication could contain technical inaccuracies, typographical errors and out-of-date information. Use of the information is therefore at your own risk. Global Graphics Software Ltd and its affiliates shall not be responsible or liable for any loss or damage that may arise from the use of any information in this publication.

The software described in this publication is furnished under license and may only be used or copied in accordance with the terms of that license. Global Graphics Software Ltd accepts no responsibility or liability for any special, punitive, incidental, indirect or consequential damages of any kind, or any damages whatsoever, including, without limitation, those resulting from loss of use, data or profits, whether or not Global Graphics Software has been advised of the possibility of such damages, and on any theory of liability, arising out of or in connection with the use of this software.

Protected by U.S Patents 5,862,253; 6,343,145; 6,330,072; 6,483,524; 6,380,951; 6,755,498; 6,624,908; 6,809,839; 6,755,498; 6,624,908; 6,809,839; 6,996,284; 7,298,526; 7,359,530; 8,749,813; 8,823,982.

Other U.S. Patents Pending

Protected by European Patents 0 803 160; 0 772 934

Portions Type 1 font renderer contains licensed third party software

Portions copyright 1991 International Business Machines, Corp.,

Portions copyright 1991 Lexmark International, Inc.

Portions Adobe Glyph List. Copyright 1990-2007 Adobe Systems Incorporated.

Portions Adobe CMaps. Copyright 1990-2009 Adobe Systems Incorporated

Portions TrueType® font renderer copyright 1997 Bitstream, Inc.

Portions developed using the Kakadu software. Copyright 2001 David Taubman, The University of New South Wales (Unisearch Ltd)

The ECI and FOGRA ICC color profiles supplied with this Harlequin RIP are distributed with the kind permission of the ECI (European Color Initiative) and FOGRA respectively, and of Heidelberger Druckmaschinen AG (HEIDELBERG).

The IFRA ICC profiles supplied with this Harlequin RIP are distributed with the kind permission of IFRA and of GretagMacbeth.

Harlequin and the Harlequin RIP are trademarks of Global Graphics Software Ltd, which may be registered in certain jurisdictions. Harlequin ColorPro, Harlequin Dispersed Screening (HDS), Harlequin Precision Screening (HPS), TrapPro, SetGold, SetGoldPro, Harlequin MultiRIP, Harlequin Host Renderer, Harlequin Parallel Pages and Harlequin VariData are all trademarks of Global Graphics Software Ltd. Other brand or product names are the registered trademarks or trademarks of their respective holders.

TrueType is a registered trademark of Apple Computer, Inc.

Microsoft, Win32, Windows, Windows NT, Windows Server, Windows Vista, Windows 7, Windows 8 and WinFX are either registered trademarks or trademarks of the Microsoft Corporation in the United States and/or other countries.

PANTONE® Colors displayed herein may not match PANTONE-identified standards. Consult current PANTONE Color Publications for accurate color. PANTONE® and other Pantone trademarks are the property of Pantone LLC. © Pantone LLC, 2014.

Font data copyright 1991 -1995 Linotype Hell Corp.

Fonts copyright (c) 2000-2004 Timo Lehtinen. All Rights Reserved. <http://www.timolehtinen.com/type/>.

International Cooperation for Integration of Processes in Prepress, Press and Postpress, CIP4, Job Definition Format, JDF and the CIP4 logo are trademarks of CIP4.

Adobe, Adobe Photoshop, Adobe Type Manager, Acrobat, Display PostScript, Adobe Illustrator, PostScript, Distiller and PostScript 3 are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries which may be registered in certain jurisdictions.

Portions include software licensed under the following terms:

OpenSSL - general purpose cryptography library

Copyright © 1998-2011 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"
4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.
5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.
6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This product includes cryptographic software written by Eric Young (eyay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Copyright © 1995-1998 Eric Young (eyay@cryptsoft.com)

All rights reserved.

This package is an SSL implementation written by Eric Young (eyay@cryptsoft.com). The implementation was written so as to conform with Netscapes SSL.

This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed. If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement: "This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)" The word 'cryptographic' can be left out if the routines from the library being used are not cryptographic related:-).

4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement: "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The licence and distribution terms for any publicly available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.

ICU - IBM library providing Unicode and Globalization support

Copyright © 1995-2003 International Business Machines Corporation and others All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

Expat - XML parser library

Copyright © 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper

Copyright © 2001, 2002 Expat maintainers.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation

the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

pthread-win32 - a POSIX threads library for Microsoft Windows

This file is Copyrighted

zlib - general purpose compression library

Copyright © 1995-2013 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Copyright © 2005-2008, The Android Open Source Project

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

“Licensor” shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

“Legal Entity” shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, “control” means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

“You” (or “Your”) shall mean an individual or Legal Entity exercising permissions granted by this License.

“Source” form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

“Object” form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

“Work” shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

“Derivative Works” shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

“Contribution” shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, “submitted” means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as “Not a Contribution.”

“Contributor” shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a “NOTICE” text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an “AS IS” BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if

You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

US Government Use

Harlequin MultiRIP software is a computer software program developed at private expense. If the Harlequin MultiRIP software is acquired under the terms of a proposal or agreement with the United States Government or any contractor therefor, the software is subject to the following restricted rights notice: "This Software is commercial computer software provided with RESTRICTED RIGHTS. Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013, FAR 52.227-17 Alternate III (g)(3), or subparagraphs (c)(1) and (2) of the Commercial Computer Software -- Restricted Rights at 48 CFR 52.227-19, as applicable, and their successor provisions. Contractor/Manufacturer is Global Graphics Software Incorporated, Waltham, MA 02451."