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(1 > fragment is last, 0 > more fragments to follow. The other 31 bits encode the byte length of the fragment. /

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(b) Updates: Synopsys will use commercially reasonable efforts to provide Updates as they become generally available. Any other upgrades or enhancements to the Licensed Products are not made available by Synopsys as part of Maintenance Services and may be subject to additional charges.

1.25. Updates to Terms: Synopsys may update its Maintenance Services terms on 60 days prior written notice, provided that these updates are applied generally to its Maintenance Services customers.

1.26. Conditions: In order to receive Maintenance Services for a Licensed Product, all of the following conditions must be met:

(a) you must have purchased Maintenance Services for such Licensed Product (unless it is licensed under a TSL, in which case Maintenance Services are included);

(b) you must appoint a qualified contact person trained in the use of the Licensed Product to interface with Synopsys regarding Maintenance Services, and identify such person to Synopsys in advance;

(c) you must provide Synopsys with access to the information and system facilities reasonably necessary to provide the Maintenance Services;

(d) you must follow the directions provided by the Synopsys Support Center to resolve technical problems;

(e) you must follow the operating instructions and procedures for the Licensed Product as specified in the Documentation or provided by Synopsys; and

(f) you must notify Synopsys of any error or other problem in the Licensed Product using Synopsys's current problem reporting procedure.

1.27. Exclusions: Synopsys will have no obligation to provide Maintenance Services for any Licensed Products that are damaged, modified (by anyone other than Synopsys), incorporated into other software, or installed in any computing environment not supported by Synopsys; or for any version of a Licensed Product other than the latest and immediately preceding version; or for any problems caused by your negligence, abuse, misuse, or by any causes beyond Synopsys's reasonable control.

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(b) you must monitor each End User's use of the Licensed Products to ensure that the End User abides by the terms of this agreement.

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1.37. Warranty: For a period of 90 days from when Synopsys delivers a Licensed Product to you (the “warranty period”), Synopsys warrants that the Licensed Product will have no Errors when used on the correct platform and according to the instructions in the corresponding Documentation. This warranty will be void if you, or anyone else other than Synopsys, modifies or attempts to modify the Licensed Product.

1.38. Warranty Claims: To claim a breach of this warranty, you must, during the warranty period, notify Synopsys in writing of the Error or Errors that you have encountered and provide Synopsys with all the information you have, in written or electronic form, about those Errors, so that Synopsys can attempt to reproduce, diagnose, and correct the Errors.

1.39. Exclusive Remedy: Your exclusive remedy for any breach of this warranty is that Synopsys will use commercially reasonable efforts to (at Synopsys’s option) correct the Errors you have reported or provide a replacement product that does not contain these Errors, or if Synopsys is unable to provide a correction or a replacement or determines that it will not be feasible to do so, Synopsys will refund the Fees you paid for that Licensed Product.

1.40. Disclaimer: Except for the warranty in this Section 8, all Licensed Products, Documentation, Design Techniques, and any third party software are provided “AS IS,” without any other warranties of any kind. Synopsys further disclaims all other warranties (express, implied, or statutory), including any warranties of merchantability, fitness for a particular

purpose, title, or non-infringement and any warranties arising from a course of dealing or usage of trade.

#### Infringement Claims

1.41. Indemnity: Synopsys will, at its own expense, be entitled to defend (or at its sole option, settle) any claim asserted against you by a third party that any Licensed Product you obtained from Synopsys under this agreement directly infringes any U.S. patent, copyright, trademark, or trade secret. Synopsys will indemnify you for any damages you suffer and costs you reasonably incur that are directly attributable to any such claim and that are assessed against you in a final, non-appealable judgment or agreed upon by Synopsys in a settlement.

1.42. Conditions: Synopsys's obligations to defend and indemnify you with respect to a particular claim are subject to the following conditions:

- (a) you must promptly give Synopsys written notice of the claim;
- (b) you must identify the specific Licensed Product(s) at issue in the claim and indicate how the Licensed Product(s) is(are) utilized by you or your products;
- (c) you must give Synopsys sole control and authority over the defense and settlement of the claim; and
- (d) you must provide Synopsys with all information you have regarding the claim and cooperate with Synopsys when Synopsys defends or attempts to settle the claim.

1.43. Pro-Active Steps: If any Licensed Product is, or Synopsys believes is likely to become, the subject of a claim for which Synopsys would be obligated to defend and indemnify you, then Synopsys may, at its option, do any of the following:

- (a) obtain for you (at no cost to you) the right for you to continue using the Licensed Product as permitted by this agreement;
- (b) replace or modify the Licensed Product to avoid the infringement problem, as long as there is no material loss of functionality; or
- (c) if Synopsys reasonably concludes that it will not be feasible to do either of the above, terminate your license for the Licensed Product and give you a prorated refund (based on how much of the License Term has elapsed) of the Fees you paid for that license.

1.44. Exclusions: Synopsys will have no obligation to defend or indemnify you (notwithstanding the first paragraph of this section) with respect to any claim that is based on or attributable to any of the following:

- (a) any modification made to the Licensed Product by anyone other than Synopsys;
- (b) the combination or use of the Licensed Product with other products, processes, or materials not supplied by Synopsys or specified in the Documentation as being necessary to use the Licensed Product;
- (c) your continued engagement in infringing activities after you were notified of the infringement or after Synopsys informed you of a modification or workaround that would have avoided the infringement; and
- (d) your use of the Licensed Product in a manner not permitted by this agreement.

1.45. Burden of Proof: You will have the burden of showing that indemnification is required pursuant to this section 9 and that the exclusions in section 9.4 are not applicable.

1.46. No Other Obligations: Except as expressly stated in this section 9, Synopsys has no obligation or liability to you for any actual or alleged infringement related to the Licensed Products, Documentation, or Design Techniques.

## Other Terms

1.47. Ownership of IP Rights: Synopsys and its licensors own all Intellectual Property Rights in the Licensed Products, Documentation, and Design Techniques. Your only rights in the Licensed Products, Documentation, and Design Techniques are the rights expressly granted in this agreement; all other rights are reserved by Synopsys. Synopsys's licensors are third-party beneficiaries of, and thus may enforce against you, the license restrictions and confidentiality obligations in this agreement with respect to their intellectual property and proprietary information. You will own all Intellectual Property Rights in the Designs you create using the Licensed Products, Documentation, and Design Techniques, subject to Synopsys's (and its licensors') ownership of the Intellectual Property Rights in the Licensed Products, Documentation, and Design Techniques. Synopsys may freely use and disseminate any Feedback you provide. You agree not to claim that Synopsys owes you any compensation for its use or dissemination of such Feedback.

1.48. OMITTED

1.49. OMITTED

1.50. Limitation of Liability: For each product or service you license or purchase from Synopsys under this agreement, Synopsys's total, cumulative liability to you, including under section 9, is limited to the amount of Fees you paid for that product or service (regardless of the nature of the liability or the nature or number of claims giving rise to the liability). Synopsys will not, under any circumstances or any theory of liability, be liable to you for any lost profits, loss of data, or consequential, incidental, or special damages arising from this agreement or the products and services provided to you under this agreement. However, this disclaimer of Synopsys's liability for consequential damages does not limit or reduce Synopsys's obligations to defend and indemnify you under section 9. The limitations of liability in this section are a fundamental part of this agreement and enable Synopsys to provide products and services to you at lower prices. These limitations of liability are intended to apply even if an exclusive remedy is found to have failed of its essential purpose.

1.51. Export Controls: You shall remain familiar with your obligations under any and all laws, statutes, regulations, ordinances of any local, states, federal, national, or other jurisdictional locality, as applicable to the export, import, and/or end-use of Synopsys products, technology, and services. Products and/or technology sold under this agreement may be subject to various Export Control Laws and Regulations including but not limited to, U.S. Export Administration Regulations (EAR), the U.S. Office of Foreign Asset Control (OFAC), the European Union (EU) Export Control Regime Regulation (EC) No. 428/2009, and/or the EU Consolidated Sanctions List. Where a product and/or technology is identified as export controlled from the country(ies) of export to (1) the destination country(ies), (2) a restricted/proscribed end use, and/or (3) a restricted end user, a government-issued export license must be obtained prior to fulfillment under this agreement and in accordance with all applicable laws. You agree that Synopsys shall not be required to complete delivery of export controlled products or technology unless and until all required export licenses have been obtained.

1.52. Governing Law; Jurisdiction: This agreement is governed by the laws of the United States and the State of California, without regard to conflicts of laws principles. The federal and state courts located in Santa Clara County, California have exclusive jurisdiction over any disputes

arising from or relating to this agreement, and each party consents to such jurisdiction and venue.

1.53. Notices: Any notice, approval, consent, or other communication intended to have legal effect under this agreement must be given to the other party in writing, must be sent by first-class, registered, or overnight mail or private overnight courier (to the address for the other party stated on the signature page, unless the other party has given notice of a new address), and will be deemed given upon receipt or when delivery is refused. A copy of any communication sent to Synopsys must also be sent to the attention of the General Counsel.

1.54. Waivers: Either party's failure to enforce any provision of this agreement will not be deemed a waiver of the future enforcement of that provision or enforcement of any other provision. In order to be binding, a waiver must be in writing and signed by the party giving the waiver.

1.55. Independent Contractors: The parties to this agreement are independent contractors. Neither party is the agent or partner of the other party, or has any power or authority to act on behalf of the other party.

1.56. Severability: If any provision in this agreement is found to be invalid or unenforceable as written, the remaining provisions will remain in full force and effect and the invalid or unenforceable provision is to be construed (and, if necessary, modified) so that it is valid and enforceable to the greatest extent possible.

1.57. Attorneys' Fees: The prevailing party in any action to enforce this agreement will be entitled to recover costs and expenses including reasonable attorneys' fees.

1.58. Remedies: Except where this agreement expressly provides exclusive remedies, all rights and remedies of either party (including termination rights) are cumulative. You agree that monetary damages alone would not be an adequate remedy, and therefore Synopsys will be entitled to injunctive relief if you materially breach the license restrictions or confidentiality provisions in this agreement.

1.59. Force Majeure: Each party will be excused from performance of its obligations under this agreement, except payment obligations, to the extent that performance is rendered impossible by earthquake, fire, flood, governmental action, labor disruptions, supplier failures, or any other event or circumstance beyond that party's reasonable control.

1.60. Construction: Section headings in this agreement are for convenience only. The word "including" (and variations thereof) is not intended to be limiting. No rule of strict construction is to be used when interpreting this agreement.

1.61. Counterparts: This agreement may be signed in multiple counterparts, each of which will be deemed an original and which together will constitute one instrument.

1.62. Press Release: The parties intend to work together to prepare and publish a mutually acceptable press release concerning this agreement.

1.63. Government Users: If you are a branch or agency of the United States Government, or are acquiring any Licensed Product on behalf of any branch or agency of the United States Government, then the following provision applies. The Licensed Products and Documentation are comprised of "commercial computer software" and "commercial computer software documentation", as such terms are used in 48 C.F.R. 12.212, and are provided to the Government (a) for acquisition by or on behalf of civilian agencies, consistent with the policy

set forth in 48 C.F.R. 12.212; or (b) for acquisition by or on behalf of units of the Department of Defense, consistent with the policies set forth in 48 C.F.R. 227.7202-1 and 227.7202-3.

1.64. Synopsys Entities: Synopsys, Inc. and its wholly-owned subsidiaries, including, but not limited to, Synopsys International Limited, Synopsys International Limited Taiwan Branch, Synopsys Korea, Inc., Synopsys Technologies Company Limited and Nihon Synopsys, G.K., have agreed to their respective rights and obligations regarding the distribution of the Licensed Products and the performance of obligations related to the Licensed Products. You acknowledge that: (a) Synopsys Inc. or any directly or indirectly wholly-owned subsidiary or branch of Synopsys, Inc. may treat a purchase order addressed to that entity, representative office or branch as having been addressed to the appropriate entity or entities or branch with distribution rights for the geographic region in which the Licensed Products will be used; and (b) delivery will be completed by the Synopsys entity or branch with distribution rights for the geographic region in which the Licensed Products will be used or service will be provided. For products used or services provided in the Americas, Israel or Africa, the distributing Synopsys entity is Synopsys, Inc., based in California, USA. For products used or services provided in Taiwan, the distributing Synopsys entity is Synopsys International Limited Taiwan Branch, based in Taiwan. For products used or services provided in the Republic of Korea, the distributing Synopsys entity is Synopsys Korea, Inc., based in the Republic of Korea. For products used or services provided in the People's Republic of China (PRC), the distributing Synopsys entity is Synopsys Technologies Company Limited or Synopsys International Limited. For products used or services provided in Russia, the distributing Synopsys entity is Synopsys LLC (Moscow) or Synopsys, Inc.. For products used or services provided in Japan, the distributing Synopsys entity is Nihon Synopsys G. K., based in Japan. For products used or services provided in any country other than those identified above, the distributing Synopsys entity is Synopsys International Limited, based in Ireland.

1.65. Entire Agreement: This agreement and any applicable attachments and Purchasing Agreements are the entire agreement between the parties concerning its subject matter, and supersede any prior or contemporaneous agreements, communications, or understandings (whether written or oral). However, any confidentiality or nondisclosure agreements that Synopsys previously entered into with you will remain in effect (according to their terms) with respect to the confidential information disclosed thereunder.

1.66. Amendments: This agreement may be amended only by means of a written instrument signed by authorized representatives of both parties that specifically refers to this agreement and states the parties' intention to amend it. No additional or inconsistent terms on any purchase order or similar document you may submit to Synopsys will be binding on Synopsys or have any legal effect.

## Glossary of Definitions

API means application programming interface for accessing specific functionality of an ARC MQX Product.

ARC MQX End Customer means a customer to whom you distribute an ARC MQX Licensee Product and who shall be obligated to maintain the confidentiality of any provided Documentation, and not expose any API of the ARC MQX Product to any third party.

ARC MQX Licensee Executable means an application program, in executable form, statically linked with and using certain APIs of an ARC MQX Product, for execution solely on an embedded ARC processor.

ARC MQX Licensee Product means a product owned by you, that is specifically identified to Synopsys in a Purchasing Agreement or other document accepted by Synopsys, and that incorporates an embedded processor and the ARC MQX Licensee Executable.

ARC MQX Product means the Synopsys real-time operating system platform for the ARC processor architecture including associated source files, application programming interfaces files, and utilities for use in creating applications that run on the ARC processor architecture.

ARC Software Development Product means any MetaWare Products, nSIM Products and xCAM Products.

Board Support Package Features means those configuration files in an ARC MQX Product that define hardware components with which the ARC MQX Licensee Executable is intended to interoperate.

Client means an instance of a Licensed Product running on a computer. This means, for example, that two Clients can be either two instances of a Licensed Product running on the same computer or one instance of a Licensed Product running on each of two computers.

Confidential Information of Synopsys means (a) the Licensed Products (in any form), the Documentation, the License Keys, and SolvNet; (b) Design Techniques and all ideas and information (such as algorithms, design rules, and design techniques) contained or embodied in the Licensed Products, Documentation, License Keys, or SolvNet; (c) the prices, discounts, payment terms, and other information in the Purchasing Agreements; (d) Synopsys Training Services materials including without limitation presentations, demonstrations, software and course handouts, and (e) any other confidential or proprietary information that Synopsys provides to you in connection with this agreement. Your Confidential Information is any confidential or proprietary information in (i) written form that you provide to Synopsys in order for Synopsys to fulfill your orders and provide products and services to you under this agreement, and (ii) oral form that you provide to Synopsys in order to receive Maintenance Services; as long as you notify Synopsys at the time of disclosure that such information is to be treated as confidential under this agreement. However, Feedback is not your Confidential Information. Also, Confidential Information does not include any of the following:

- (1) information that has become generally available to the public, through no fault of yours (in the case of Synopsys Confidential Information) or Synopsys (in the case of your Confidential Information) and that is not still regarded as a trade secret under laws governing information that was negligently or maliciously distributed;
- (2) information that the receiving party had already obtained in a tangible form, through lawful means, before obtaining it under this agreement;
- (3) information that the receiving party developed independently, without the use of any materials or information obtained from the other party in connection with this agreement;
- (4) information that the receiving party has lawfully obtained, in a tangible form, from a third party that had the right to provide it to the receiving party; or



(5) information that the disclosing party releases for publication in writing.

Design means a representation of an electronic circuit or device that you create through the use of one or more Licensed Products. The representation may exist in various formats including, but not limited to, equations, truth tables, schematic diagrams, textual descriptions, hardware description languages, executable software source code and netlists.

DesignWare has the meaning given in section 1 of the Terms and Conditions.

Design Database means a design database for your Design that incorporates DesignWare in any format (except unencrypted source code for Implementation IP), along with all copyright and other proprietary legends for such DesignWare.

Design Techniques means Synopsys-supplied algorithms, data, circuit and logic elements, libraries, rule bases, search strategies, and other technical information used in the process of creating Designs.

DesignWare Fee-Per-Use Core means an IP core (as this term is understood in the semiconductor industry) for which Synopsys charges an additional fee each time it is used in the design of an integrated circuit.

Documentation means any user manuals, reference manuals, release, application and methodology notes, written utility programs, and other materials in any form provided by Synopsys for use with a Licensed Product.

End User means an individual who works for you as an employee or independent contractor and whom you designate and authorize to access and use a Licensed Product as permitted by this agreement.

Error means a defect in a Licensed Product that causes it to deviate substantially from the specifications in the corresponding Documentation.

Feedback means any ideas or suggestions you voluntarily provide to Synopsys (in any manner, whether in writing or orally or otherwise) regarding the Licensed Products, Documentation, or Design Techniques, including possible enhancements or improvements.

Fees means the amounts you must pay when you purchase products and services from Synopsys under this agreement, as identified in each Purchasing Agreement.

FTP Server means a Synopsys server that you can access via the Internet in order to download Licensed Products you have ordered.

Implementation IP means synthesizable designs (other than Verification IP).

Integrated Design means a Design that combines Implementation IP with the Design and does not consist primarily of Implementation IP.

Intellectual Property Rights means all patent rights, copyrights, trade secret rights, mask works, and trademark rights (including service marks and trade names), and any applications for these rights, in all countries.

Key Server means the computer with the host I.D. number that is identified in the License Key and which controls access to and enables the use of a Licensed Product.

License Key means a document (in physical or electronic format) provided by Synopsys that identifies: (a) the Licensed Product, including version number, licensed to you; (b) the Key Server; (c) the number of permitted Clients; and (d) the codes that initialize use of the Key Server.

License Term means the period of time during which you may use a Licensed Product under a particular license.

Licensed Design Partner means a third party that (a) you have engaged to work with you on a common Design; and (b) has a valid Synopsys end user license agreement for the DesignWare used in your Design.

Licensed Products has the meaning given in section 1 of the Terms and Conditions.

Licensed Software has the meaning given in section 1 of the Terms and Conditions.

Maintenance Services has the meaning given in section 1 of the Terms and Conditions.

MetaWare Product means a Synopsys software development tool used to create, profile and debug software applications that run on an embedded microprocessor, identified by Synopsys with the product name "MetaWare".

nSIM Product means a Synopsys software model of the instruction set of an embedded ARC microprocessor, identified by Synopsys with the product name "nSIM".

Open Source Software has the meaning given in section 2.12 of the Terms and Conditions.

Parent Entity means a person, company or other entity that owns, directly or indirectly, more than fifty percent (50%) of your assets or of the stock or other equity interests entitled to vote for your directors or equivalent managing authority.

Purchasing Agreement means the applicable Synopsys sales quotation, FSA schedule, purchase agreement or other agreement describing (among other things) the products and services that you have licensed or purchased, including pricing information.

SolvNet means Synopsys's suite of online support services accessible via the Internet.

Synopsys Competitor means any corporation or other legal entity in the business of developing and/or marketing (including making generally commercially available to end user customers) one or more electronic design automation software products or intellectual property cores or related services.

System-on-Chip means an integrated circuit which integrates the microcontroller, microprocessor, peripherals and interfaces in a single Design.

TSL means a time-based technology subscription license of a Licensed Product. A TSL lasts for a specific period of time (the License Term) from when the license is delivered and includes (at no additional charge) Maintenance Services for the Licensed Product in question.

Updates means error corrections and minor improvements to the Licensed Products.

Use Area for a Licensed Product means a single geographical site that you own or occupy as your place of business, which may consist of one or more buildings located within 5 miles of one another, and in which the Key Servers, Clients, and End Users for that Licensed Product are all located, except as modified by the right to allow End Users to telecommute or use over a WAN in section 2.6.

Verification IP means test benches (including software models, test suites, and monitors) that simulate, test, and verify the functionality of certain electronic circuits or devices.

WAN means a wide area network as referred to in section 2.6.

xCAM Product means a Synopsys software development tool that creates and uses cycle-accurate software models of an embedded ARC microprocessor, identified by Synopsys with the product name "xCAM".

You (and variations thereof) means the entity that signs or agrees to this agreement as the customer.



Software. When ordering these Core Software, you will be given an opportunity to review the additional terms and conditions that must be accepted for you to receive the Core Software. If the additional terms and conditions conflict in any way with the terms and conditions stated here, the additional terms and conditions will prevail.

## 2. Licenses

2.1 Your License Rights: When you purchase a license to Core Software, upon delivery of the Core Software you will have a nonexclusive right to:

- (a) internally use and reproduce the Core Software solely to design, test, and verify the applicable Licensee IC for your manufacture and subsequent sale;
- (b) create Modifications to the Core Software solely to the extent necessary to design, test, and verify the applicable Licensee IC, subject to sections 2.5 and 2.6; and
- (c) manufacture (or have manufactured by a third party, as described in section 2.4) the applicable Licensee ICs incorporating the licensed Core.

2.2 Users: Except as described in sections 2.3 and 2.4, you will allow only those of your employees who are on the single design team responsible for designing or testing your Licensee IC to access the Core Software. You are responsible for the acts and omissions of your employees, agents, and permitted Contractors and third-party manufacturers with respect to any use of the Core Software or Synopsys Confidential Information, including any breaches of this agreement that they may commit.

2.3 Contractors: You may also allow Contractors to access certain parts of the Core Software as follows:

- (a) For Core Software that is in netlist or encrypted RTL form, you may allow Contractors that are not Synopsys Competitors to access that Core Software either on your physical premises or on theirs. Contractors that are Synopsys Competitors may access the netlist or encrypted RTL only while on your physical premises.
- (b) For Core Software that is in source code form, you may allow Contractors that are not Synopsys Competitors to access that Core Software only on your physical premises. You may not allow Contractors that are Synopsys Competitors to access this source code at all.
- (c) In all cases, you may allow Contractors to access the Core Software only on a “need-to-know” basis, only to allow them to perform design services on the Licensee IC in accordance with your license, and subject to a written confidentiality agreement that is at least as protective as the confidentiality terms set forth in this agreement.

2.4 Third-Party Manufacturers: You may have a third-party manufacturer make Licensee ICs incorporating the licensed Core for you if you make sure all of the following conditions are met:

- (a) the resulting Licensee ICs must be made for sale or use only by you;
- (b) the designs and specifications you give to the manufacturer contain sufficient detail so that no additional design work is performed by the manufacturer (except for the simple adaptation of your designs to the manufacturer’s own normal production processes);
- (c) you provide those designs and specifications to the manufacturer only for the purpose of making the Licensee ICs for you, and subject to confidentiality provisions that are at least as protective as those in this agreement; and
- (d) you do not give source code for any Core Software to the manufacturer.

2.5 Hard IP Cores. If you license any Cores that are Hard IP Cores, you understand that you may be required to obtain appropriate licenses to technology libraries (such as standard cell

and I/O libraries) from a supplier of such libraries, and that if this is case, you are responsible for getting these licenses at your own cost. You also agree that you may not make Modifications to Hard IP Cores without first obtaining Synopsys' prior written consent. Your use of each Hard IP Core is limited to the applicable manufacturer and process node specified in the Purchasing Agreement, and you may not use the Hard IP Core for any other manufacturer or process node.

2.6 Ownership: The Core Software and all Modifications (including all Intellectual Property Rights in them) are owned by Synopsys and its licensors. If you have any rights in any Modifications, you hereby irrevocably assign ownership of those Modifications (and all Intellectual Property Rights in them) to Synopsys. However, you are under no obligation to actually disclose any such Modifications to Synopsys, and they will automatically be licensed to you as "Core Software" pursuant to section 2.1. There are no implied licenses granted under this agreement, and all rights not expressly granted to you are reserved to Synopsys.

2.7 Conditions: Your right to use the Core Software is conditioned upon your timely payment of the full amount of Fees due for the Core Software (if any) and your compliance with the terms of this agreement, including the following restrictions. For Core Software with a license term, when the license term expires your license rights also expire and you may no longer use the Core Software.

2.8 Restrictions: You may not (and may not allow anyone else to):

- (a) copy or use any Core Software (or Documentation) in any manner that is not expressly allowed by the license rights stated above;
  - (b) decompile, reverse engineer, or otherwise attempt to derive the source code for any Core Software, or any underlying algorithms, user interface techniques, or other ideas embodied in Core Software, that is not provided to you in unencrypted source code or RTL format;
  - (c) tamper with, or attempt to circumvent or disable, any License Key (this includes, for example, resetting the CPU time in order to extend the license term (if any), or using a false host ID number or additional virtualized copy(ies) of the host ID number to enable unauthorized copies of a License Key);
  - (d) distribute any copy of Core Software (or Documentation) except as expressly allowed by the license rights stated above, or allow anyone other than your End Users to have access to or use (such as in a timesharing, service bureau, or application service provider model) any Core Software;
  - (e) use Core Software or its output to create, modify, or simulate Designs for third parties or to develop or enhance any product that competes with a Synopsys product;
  - (f) disclose the results of any benchmarking of Core Software (whether or not the results were obtained with assistance from Synopsys) to any third party; or
  - (g) use Core Software in the development of any product if the failure or malfunction of that product could reasonably be expected to result in personal injury, death, or catastrophic loss.
- If the License Key limits the number of End Users who may use a Core Software simultaneously or the number of simultaneous Clients, you must ensure that this limit is not exceeded, by platform virtualization or any other means.

2.9 Copies: If you make backup or archival copies of Core Software or Documentation, you must reproduce all copyright, trademark, and other notices that appear on the original copy.

2.10 Transfers and Assignments: You may not transfer or assign your license rights to any other person in any manner (by assignment, operation of law or otherwise) unless you have obtained written consent from Synopsis. If you attempt to transfer or assign any of your license rights without Synopsis's consent, the transfer or assignment will be ineffective, null, and void (and you will be in material breach of this agreement). For purposes of this section 2.10, a transfer or assignment of your license rights will be deemed to have occurred (a) if a third party (or group of third parties acting in concert) acquires beneficial ownership of fifty percent (50%) or more of either (i) your or a Parent Entity's assets or (ii) the stock or other equity interests entitled to vote for your or a Parent Entity's directors or equivalent managing authority, or (b) in the event of a merger, consolidation or other business combination between you or a Parent Entity and one or more third parties where your or a Parent Entity's stockholders immediately before that transaction own (directly or indirectly), after that transaction, less than fifty percent (50%) of the stock or other equity interests entitled to vote for the directors or equivalent managing authority of the surviving entity.

### 3 Order and Delivery

3.1 Ordering Synopsis Products: You may order the products and services identified in the Purchasing Agreements at any time by submitting an order to Synopsis through Synopsis's on-line ordering system or as otherwise directed by Synopsis. When using Synopsis's on-line ordering system, you shall be responsible for ensuring that all information you provide is accurate and complete and that any person placing an order on your behalf has your authority to do so. Once you submit an order, you may not cancel or change it. Your order must indicate which products and services you want to purchase, including any information Synopsis would need to fulfill your order. Synopsis may, in its reasonable discretion, accept or reject your order. Synopsis may accept your order by sending you written or electronic notice of acceptance or simply by fulfilling your order.

3.2 Delivery: If Synopsis accepts your order for one or more Core Software, Synopsis will then deliver to you the Core Software along with the corresponding Documentation and License Keys (if applicable). Synopsis will deliver these materials to you by EST except where prohibited by law.

3.3 EST: When Synopsis delivers Core Software by EST, Synopsis will send you an e-mail to your designated EST e-mail address(es) to notify you that the Core Software is available. Synopsis's obligation to deliver the Core Software will be fulfilled when this e-mail notice is sent. You will be responsible for downloading or requesting for delivery the Core Software and Documentation from the FTP Server and the applicable License Key from Synopsis's website at [www.synopsys.com](http://www.synopsys.com), unless Synopsis gives you other instructions. You must notify Synopsis in writing if you change your EST e-mail address(es).

3.4 Tangible Media: When Synopsis delivers Core Software to you on tangible media, the media may contain other software programs in addition to the Core Software. If it does, you will not have a license to use (and the License Keys for the Core Software will not permit you to use) these other software programs, and you must not attempt to access, use, reproduce, modify, reverse engineer, or otherwise tamper with these other software programs. If you lose or damage the media, Synopsis will, at your request, provide a replacement at a nominal charge. All deliveries of tangible items will be made F.O.B. Origin.

### 4. Fees and Payment

4.1 Fees and Royalties: The applicable license fees and royalties (if any) for the Core Software are specified in the Purchasing Agreement. You agree to pay the Fees according to the payment terms in the applicable Purchasing Agreement.

4.2 Payments: If the applicable Purchasing Agreement does not contain specific payment terms for the Fees in question, payment of those Fees will be due within 30 days after the date of Synopsys's invoice. If you do not pay an amount by the scheduled due date, Synopsys will have the right to withhold the delivery of License Keys and/or terminate this agreement or a Purchasing Agreement and accelerate the due date of all remaining payments. In this event, you will owe the entire outstanding balance as soon as you receive written notice from Synopsys that your payment is due. All payments you make to Synopsys are non-refundable. You may not offset any amounts you believe Synopsys owes you against any payments you make to Synopsys under this agreement. You must make payments in U.S. dollars. If you do not pay an amount by the due date, you must also pay a late payment charge of 1.5% per month or the highest rate permitted by law, whichever is less.

4.3 Taxes: You will be solely responsible for paying all taxes (including sales, use, consumption, withholding, and value-added taxes and similar taxes), other than Synopsys's income taxes, that are imposed on or result from your purchase, license, or use of Synopsys products and services. If Synopsys is required by law to collect and remit any such taxes, Synopsys may invoice you for such taxes and you agree to pay the invoiced amount to Synopsys. If you are required by the respective jurisdiction where the Core Software are used, or where services are provided, to withhold taxes from payments to Synopsys, you may withhold from the total amount due to the respective Synopsys distributing entity the minimum amount required (but no more). You may only withhold taxes related to a payment at the time of such payment. You must then promptly pay that amount to the appropriate tax authority and provide Synopsys with an official receipt for the payment within 60 days of your payment.

4.4 Bankruptcy: If you become the subject of any bankruptcy, dissolution, liquidation, or similar proceedings or make a general assignment for the benefit of your creditors, Synopsys may apply any payments you have previously made to Synopsys for products or services not yet delivered by Synopsys against any amounts you owe Synopsys at that time for products or services that have been delivered by Synopsys (under this agreement or otherwise).

4.5 Royalty Reporting and Payment: If royalties are applicable, then within 30 days after the end of each calendar quarter following the effective date of this agreement, you will submit a royalty report to Synopsys via email to [royalty@synopsys.com](mailto:royalty@synopsys.com), on a form approved by Synopsys, that accurately sets forth the number of units of each Licensee IC that you sold, distributed, or otherwise disposed of during that quarter, along with payment of all reported amounts. You are to submit a royalty report even during quarters where you report no sales, distributions, or disposals of Licensee ICs. Note that you will continue to be obligated to make royalty reports and pay royalties until you permanently discontinue sales or distributions of the applicable Licensee IC. In the event of such a discontinuation, you will provide Synopsys with a written certification that the Licensee IC has been discontinued, along with a final royalty report for the applicable Licensee IC.

4.6 OMITTED

5. Core Support Services

5.1 Core Support Services: Core Support Services, for the first 12 months after the initial delivery of the Core Software, are included in the price of a Use of the Core Software. In providing Core Support Services, Synopsys will use commercially reasonable efforts to perform the following:

- (a) provide you with bug-fix releases to the extent necessary to conform the Core Software to any applicable technical standard specification that was in existence at the time the Core Software was delivered to you;
- (b) provide you with workarounds for material errors in the Core Software;
- (c) provide you with 24/7 access to electronic assistance regarding the operation of the Core Software, as Synopsys may make available from time to time (such as through the SolvNet online web support service);
- (d) if electronic assistance does not yield an appropriate resolution, give you access to a reasonable amount of telephone support for the Core Software, during normal business hours, through your designated support contact; and
- (e) deliver bulletins as they are released by Synopsys from time to time, which contain information on bug-fix releases, application techniques, and workarounds for the Core Software.

5.2 Designated Support Contacts: You may appoint up to 4 designated support contacts for each supported Licensee IC, and will give Synopsys the names of all designated support contacts before making initial contact with the Synopsys support center. All technical communications, information, and materials exchanged between you and Synopsys regarding the Core Software will be conducted through your designated support contacts. You may change any designated support contact at any time by notifying Synopsys.

5.3 Limitations. The Core Support Services described in this section are the only services that Synopsys makes available for the Core Software, and no other warranties or support and maintenance services apply. Synopsys has no obligation to provide support for Core Software that has been altered, damaged, or modified by you. If you wish to continue receiving Core Support Services after the 12-month period following the initial delivery of the Core Software, you must separately purchase extended Core Support Services from Synopsys for an additional fee pursuant to an accepted purchase order. Reuse fees for Core Software do not include Core Support Services.

5.4 The Core Software and Core Support Services are provided "AS IS". Synopsys disclaims all other warranties (express, implied, or statutory), including any warranties of merchantability, fitness for a particular purpose, title, or non-infringement and any warranties arising from a course of dealing or usage of trade.

## 6. Term and Termination

6.1 Term of Agreement: Both you and Synopsys must sign (either physically or through electronic acceptance) this agreement for it to take effect. When both parties have so signed this agreement, the term of this agreement will begin on the effective date stated on the signature page and will end when all licenses granted hereunder terminate, or until this agreement terminates as provided below, whichever is sooner.

6.2 Term of Purchasing Agreement: Each Purchasing Agreement will have its own term, as indicated on that Purchasing Agreement.



6.3 Term of Individual Licenses: The term of each license for the Core Software granted under this agreement shall begin upon the delivery date of the Core Software, and shall continue until you discontinue the sale and distribution of the applicable Licensee ICs.

6.4 Rights to Terminate: Each party has the right to terminate this agreement, by giving written notice of termination to the other party, if (a) the other party breaches this agreement and (b) either the breach cannot be cured or, if the breach can be cured, it is not cured by the breaching party within 15 days after receiving written notice of the breach from the non-breaching party. A substantial deviation of Core Software from the specifications in the corresponding Documentation will not be considered a breach of this agreement that allows you to terminate the agreement.

6.5 Consequences of Termination: If and when either you or Synopsys terminates this agreement, all Purchasing Agreements in effect at that time will also terminate. When this agreement, a Purchasing Agreement or an individual license to Core Software expires or is terminated:

(a) you must (i) immediately cease all use of the Core Software and related Confidential Information in your possession or control (or in the possession of any third party to whom you provided such materials), (ii) promptly return to Synopsys or destroy all copies of such Core Software and related Confidential Information, and (iii) within 30 days after such expiration or termination, certify in writing to Synopsys that you have complied with clauses (i) and (ii), except, however, that your license to a Core Instantiated into a Licensee IC prior to termination shall continue according to its terms;

(b) you will remain obligated to pay any amounts you owe to Synopsys at that time; and

(c) the provisions of sections 4, 5.4, 6.5, 8 and 9 will remain in effect.

## 7. Third-Party Licenses and Indemnification

7.1 Indemnity: Synopsys will, at its own expense, be entitled to defend (or at its sole option, settle) any claim asserted against you by a third party that any Core Software you obtained from Synopsys under this agreement infringes any U.S. copyright, trademark, or trade secret, or U.S. patent that issued before Synopsys' delivery to you of the applicable Core Software. Synopsys will indemnify you for any damages you suffer and costs you reasonably incur that are directly attributable to any such claim and that are assessed against you in a final, non-appealable judgment or agreed upon by Synopsys in a settlement.

7.2 Conditions: Synopsys's obligations to defend and indemnify you with respect to a particular claim are subject to the following conditions:

(a) you must promptly give Synopsys written notice of the claim;

(b) you must identify the specific Core Software at issue in the claim and indicate how the Core Software is utilized by you or your products;

(c) you must give Synopsys sole control and authority over the defense and settlement of the claim; and

(d) you must provide Synopsys with all information you have regarding the claim and cooperate with Synopsys when Synopsys defends or attempts to settle the claim.

7.3 Pro-Active Steps: If any Core Software is, or Synopsys believes is likely to become, the subject of a claim for which Synopsys would be obligated to defend and indemnify you, then Synopsys may, at its option, do any of the following:

- (a) obtain for you (at no cost to you) the right for you to continue using the Core Software as permitted by this agreement;
- (b) replace or modify the Core Software to avoid the infringement problem, as long as there is no material loss of functionality; or
- (c) if Synopsys reasonably concludes that it will not be feasible to do either of the above, terminate your license for the Core Software and give you a refund of the Fees you paid to Synopsys for that license.

7.4 Exclusions: Synopsys will have no obligation to defend or indemnify you (notwithstanding the first paragraph of this section) with respect to any claim that is based on or attributable to any of the following:

- (a) any modification made to the Core Software by anyone other than Synopsys;
- (b) the combination or use of the Core Software with other products or materials not supplied by Synopsys or specified in the Documentation as being necessary to use the Core Software;
- (c) your continued engagement in infringing activities after you were notified of the infringement or after Synopsys informed you of a modification or workaround that would have avoided the infringement;
- (d) the failure to obtain a license available from a standards organization, or which would be available as a result of an undertaking to a standards organization;
- (e) the methods or processes employed in using the Core Software, other than those inherent methods and processes that are necessarily employed in the intended mode of operation of the Core Software and without which a material function of the Core Software would not operate;
- (f) compliance with your directions, instructions, specifications, or technical requirements (including any requirement that the Core Software or Licensee IC support or comply with industry or technical standards), if there are no known commercially-reasonable means of complying with such directions, instructions, specifications, or technical requirements free of a claim of infringement; or
- (g) your use of the Core Software in a manner not permitted by this agreement.

7.5 Burden of Proof: You will have the burden of showing that indemnification is required pursuant to this Section 7 and that the exclusions in section 7.4 do not apply.

7.6 No Other Obligations: Except as expressly stated in this section 7, Synopsys has no obligation or liability to you for any actual or alleged infringement related to the Core Software.

## 8. Confidentiality

8.1 Confidentiality Obligations: Each party (you and Synopsys) agrees to abide by the following confidentiality obligations with respect to the other party's Confidential Information:

- (a) do not disclose it to any third party unless (i) the other party has given its specific and express prior written approval, (ii) the disclosure is expressly allowed under this agreement, or (iii) the disclosure is necessary to comply with a valid court order or subpoena;
- (b) do not use it for any reason other than to exercise its rights and perform its obligation under this agreement; and
- (c) protect it from unauthorized dissemination in the same manner as that party protects its own Confidential Information, and in any event with reasonable precautions (which include limiting access to employees and contractors on a "need to know" basis).

8.2 Mandatory Disclosures: If you believe you must disclose Synopsys's Confidential Information in order to comply with a valid court order or subpoena, you must promptly notify

Synopsys and cooperate with Synopsys if Synopsys chooses to contest the disclosure requirement, seek confidential treatment of the information to be disclosed, or to limit the nature or scope of the information to be disclosed. Synopsys will do the same if it believes it must disclose your Confidential Information in these circumstances.

8.3 Additional Obligations: In addition to your general obligations of confidentiality regarding the Core Software and Documentation, you must monitor each End User's use of the Core Software to ensure that the End User abides by the terms of this agreement.

## 9 Other Terms

9.1 Ownership of IP Rights: Synopsys and its licensors own all Intellectual Property Rights in the Core Software and Documentation. Your only rights in the Core Software and Documentation are the rights expressly granted in this agreement; all other rights are reserved by Synopsys. Synopsys's licensors are third-party beneficiaries of, and thus may enforce against you the license restrictions and confidentiality obligations in this agreement with respect to their intellectual property and proprietary information. Synopsys may freely use and disseminate any Feedback you provide. You agree not to claim that Synopsys owes you any compensation for its use or dissemination of such Feedback.

9.2 Limitation of Liability: For each product or service you license or purchase from Synopsys under this agreement, Synopsys's total, cumulative liability to you, including under section 7, is limited to the amount of Fees you paid for that product or service (regardless of the nature of the liability or the nature or number of claims giving rise to the liability). Synopsys will not, under any circumstances or any theory of liability, be liable to you for any lost profits, loss of data, or consequential, incidental, or special damages arising from this agreement or the products and services provided to you under this agreement. However, this disclaimer of Synopsys's liability for consequential damages does not limit or reduce Synopsys's obligations to defend and indemnify you under section 7. The limitations of liability in this section are a fundamental part of this agreement and enable Synopsys to provide products and services to you at lower prices. These limitations of liability are intended to apply even if an exclusive remedy is found to have failed of its essential purpose.

9.3 Export Controls: You agree that the goods, software, and technology subject to this agreement are subject to the export control laws and regulations of the United States, including but not limited to the Export Administration Regulations ("EAR"), and sanctions regulations of the U.S. Department of Treasury, Office of Foreign Asset Controls and that you will comply with these laws and regulations. Without limiting the foregoing, you will not, without a U.S. Bureau of Industry and Security license or license exception, (i) export, re-export, or transfer any technology, software, or source code subject to this agreement, either directly or indirectly, to any national of any country identified in Country Groups D:1 or E:1 as defined in the EARs, or (ii) export to any country identified in Country Groups D:1 or E:1 the direct product of the technology, software or source code, if such foreign produced product is subject to the national security controls as identified on the Commerce Control List ("CCL"). In addition, goods, software and any technology subject to this agreement may not be exported, reexported, or transferred to (a) any person or entity listed on the "Entity List", "Denied Persons List" or the list of "Specifically Designated Nationals and Blocked Persons" as such lists are maintained by the U.S. Government, or (b) an end-user engaged in activities related to weapons of mass destruction. Such activities include but are not necessarily limited to activities related to: (1)

the design, development, production, or use of nuclear materials, nuclear facilities, or nuclear weapons; (2) the design, development, production, or use of missiles or support of missiles projects; and (3) the design, development, production, or use of chemical or biological weapons.

9.4 Governing Law; Jurisdiction: This agreement is governed by the laws of the United States and the State of California, without regard to conflicts of laws principles. The federal and state courts located in Santa Clara County, California have exclusive jurisdiction over any disputes arising from or relating to this agreement, and each party consents to such jurisdiction and venue.

9.5 Notices: Any notice, approval, consent, or other communication intended to have legal effect under this agreement must be given to the other party in writing, must be sent by first-class, registered, or overnight mail or private overnight courier (to the address for the other party stated on the signature page, unless the other party has given notice of a new address), and will be deemed given upon receipt or when delivery is refused. A copy of any communication sent to Synopsys must also be sent to the attention of the General Counsel.

9.6 Waivers: Either party's failure to enforce any provision of this agreement will not be deemed a waiver of the future enforcement of that provision or enforcement of any other provision. In order to be binding, a waiver must be in writing and signed by the party giving the waiver.

9.7 Independent Contractors: The parties to this agreement are independent contractors. Neither party is the agent or partner of the other party, or has any power or authority to act on behalf of the other party.

9.8 Severability: If any provision in this agreement is found to be invalid or unenforceable as written, the remaining provisions will remain in full force and effect and the invalid or unenforceable provision is to be construed (and, if necessary, modified) so that it is valid and enforceable to the greatest extent possible.

9.9 Attorneys' Fees: The prevailing party in any action to enforce this agreement will be entitled to recover costs and expenses including reasonable attorneys' fees.

9.10 Remedies: Except where this agreement expressly provides exclusive remedies, all rights and remedies of either party (including termination rights) are cumulative. You agree that monetary damages alone would not be an adequate remedy, and therefore Synopsys will be entitled to injunctive relief if you materially breach the license restrictions or confidentiality provisions in this agreement.

9.11 Force Majeure: Each party will be excused from performance of its obligations under this agreement, except payment obligations, to the extent that performance is rendered impossible by earthquake, fire, flood, governmental action, labor disruptions, supplier failures, or any other event or circumstance beyond that party's reasonable control.

9.12 Construction: Section headings in this agreement are for convenience only. The word "including" (and variations thereof) is not intended to be limiting. No rule of strict construction is to be used when interpreting this agreement.

9.13 Counterparts: This agreement may be signed in multiple counterparts, each of which will be deemed an original and which together will constitute one instrument.

9.14 Press Release: The parties intend to work together to prepare and publish a mutually acceptable press release concerning this agreement.

9.15 Government Users: If you are a branch or agency of the United States Government, or are acquiring any Core Software on behalf of any branch or agency of the United States Government, then the following provision applies. The Core Software and Documentation are comprised of “commercial computer software” and “commercial computer software documentation”, as such terms are used in 48 C.F.R. 12.212, and are provided to the Government (i) for acquisition by or on behalf of civilian agencies, consistent with the policy set forth in 48 C.F.R. 12.212; or (ii) for acquisition by or on behalf of units of the Department of Defense, consistent with the policies set forth in 48 C.F.R. 227.7202-1 and 227.7202-3.

9.16 Synopsys Entities: Synopsys, Inc. and its wholly-owned subsidiaries, including, but not limited to, Synopsys International Limited, Synopsys International Limited Taiwan Branch, Synopsys Global Kft and Nihon Synopsys, G.K., have agreed to their respective rights and obligations regarding the distribution of the Core Software and the performance of obligations related to the Core Software. You acknowledge that: (i) Synopsys Inc. or any directly or indirectly wholly-owned subsidiary or branch of Synopsys, Inc. may treat a purchase order addressed to that entity, representative office or branch as having been addressed to the appropriate entity or entities or branch with distribution rights for the geographic region in which the Core Software will be used; and (ii) delivery will be completed by the Synopsys entity or branch with distribution rights for the geographic region in which the Core Software will be used or service will be provided. For products used or services provided in a country in the Americas or Africa, the distributing Synopsys entity is Synopsys, Inc., based in California, USA. For products used or services provided in Taiwan, the distributing Synopsys entity is Synopsys International Limited Taiwan Branch, based in Taiwan. For products used or services provided in Hungary, Australia, Belarus, Bulgaria, Israel, Poland, the Republic of Korea, Romania, Russia, Ukraine or Vietnam, the distributing Synopsys entity is Synopsys Global Kft, based in Hungary. For products used or services provided in Japan, the distributing Synopsys entity is Nihon Synopsys G. K., based in Japan. For products used or services provided in any country other than those identified above, the distributing Synopsys entity is Synopsys International Limited, based in Ireland.

9.17 Entire Agreement: This agreement and any applicable attachments, supplements and Purchasing Agreements are the entire agreement between the parties concerning its subject matter, and supersede any prior or contemporaneous agreements, communications, or understandings (whether written or oral). However, any confidentiality or nondisclosure agreements that Synopsys previously entered into with you will remain in effect (according to their terms) with respect to the confidential information disclosed thereunder.

9.18 Amendments: This agreement may be amended only by means of a written instrument signed by authorized representatives of both parties that specifically refers to this agreement and states the parties’ intention to amend it. No additional or inconsistent terms on any purchase order or similar document you may submit to Synopsys will be binding on Synopsys or have any legal effect.

## GLOSSARY OF DEFINITIONS

Client means an instance of Core Software running on a computer. This means, for example, that two Clients can be either two instances of Core Software running on the same computer or one instance of Core Software running on each of two computers.

Confidential Information of Synopsys means (a) the Core Software (in any form), the Documentation, the License Keys, and SolvNet; (b) all ideas and information (such as algorithms, design rules, and design techniques) contained or embodied in the Core Software, Documentation, License Keys, or SolvNet; (c) the prices, discounts, payment terms, and other information in the Purchasing Agreements; and (d) any other confidential or proprietary information that Synopsys provides to you in connection with this agreement. Your Confidential Information is any confidential or proprietary information in (i) written form that you provide to Synopsys in order for Synopsys to fulfill your orders and provide products and services to you under this agreement, and (ii) oral form that you provide to Synopsys in order to receive Core Support Services; as long as you notify Synopsys at the time of disclosure that such information is to be treated as confidential under this agreement. However, Feedback is not your Confidential Information. Also, Confidential Information does not include any of the following: (A) information that has become generally available to the public, through no fault of yours (in the case of Synopsys Confidential Information) or Synopsys (in the case of your Confidential Information) and that is not still regarded as a trade secret under laws governing information that was negligently or maliciously distributed; (B) information that the receiving party had already obtained in a tangible form, through lawful means, before obtaining it under this agreement; (C) information that the receiving party developed independently, without the use of any materials or information obtained from the other party in connection with this agreement; (D) information that the receiving party has lawfully obtained, in a tangible form, from a third party that had the right to provide it to the receiving party; or (D) information that the disclosing party releases for publication in writing.

Contractor means a third-party entity engaged by you to provide design services directly related to your Licensee IC.

Core Support Services has the meaning given in section 5 of this agreement.

Documentation means any user manuals, reference manuals, release, application and methodology notes, written utility programs, and other materials in any form provided by Synopsys for use with Core Software.

End User means an individual who works for you as an employee or independent contractor and whom you designate and authorize to access and use Core Software as permitted by this agreement.

EST means electronic software transfer.

Feedback means any ideas or suggestions you voluntarily provide to Synopsys (in any manner, whether in writing or orally or otherwise) regarding the Core Software or Documentation, including possible enhancements or improvements.

Fees means the amounts you must pay when you purchase products and services from Synopsys under this agreement, as identified in each Purchasing Agreement.

FTP Server means a Synopsys server that you can access via the Internet in order to download Core Software you have ordered.

Hard IP Core means a Core that is delivered in a format that is non-synthesizable and suitable for implementation using a specific manufacturing process.

IC means integrated circuit.

Intellectual Property Rights means all patent rights, copyrights, trade secret rights, mask works, and trademark rights (including service marks and trade names), and any applications for these rights, in all countries.

Instantiation (and variations thereof) means an implementation of a single Core a single time in an IC. Implementation of the same Core two times in a single IC constitutes two Instantiations.

Key Server means the computer with the host I.D. number that is identified in the License Key and which controls access to and enables the use of certain Core Software (those that requires a License Key).

License Key means a document (in physical or electronic format) provided by Synopsys that identifies: (i) the applicable Core Software licensed to you; (ii) the Key Server; (iii) the number of permitted Clients; and (iv) the codes that initialize use of the Key Server.

Licensee IC means an IC owned by you and specifically identified to Synopsys in a Purchasing Agreement or other document accepted by Synopsys, which contains at least one Instantiation of a Core.

Modification means a bug fix, modification, enhancement, or revision of any aspect of the Core Software.

Parent Entity means a person, company or other entity that owns, directly or indirectly, more than fifty percent (50%) of your assets or of the stock or other equity interests entitled to vote for your directors or equivalent managing authority.

Purchasing Agreement means the applicable Synopsys sales quotation, purchase agreement or other agreement describing (among other things) the products and services that you have licensed or purchased, including pricing information.

Reuse means an additional Use of any aspect of the Core Software in a new Licensee IC (i.e. one that functions differently from the IC that was the subject of the initial Use, such as an IC that implements a change in timing, electrical or power specifications, retargeting to a different process technology or other changes in form, features or functionality); provided, however, that "Reuse" specifically excludes any Use: (i) in connection with a revised version of an IC that was the subject of the initial Use for which you have already obtained a paid-up license, where the only change is to implement bug fixes or error corrections in an IC, and (ii) in connection with a new IC that uses the same physical GDSII as the IC that was the subject of the initial Use and for which you have already obtained a paid-up license (as in the case of a bond out option).

SolvNet means Synopsys's suite of online support services accessible via the Internet.

Synopsys Competitor means any corporation or other legal entity in the business of developing and/or marketing (including making generally commercially available to end user customers) intellectual property cores or related services.

Use as a noun means engagement in any activity involving the Core Software, including but not limited to any of the following: configuration, evaluation, synthesis, simulation, modification, verification, monitoring, analysis, compilation, incorporation, embedding, integration, prototype testing, and Instantiation. A single Use is a single Instantiation of a Core in a single IC. To "Use" means to engage in any activity involving the Core Software, including but not limited to the activities listed above.

You (and variations thereof) means the entity that agrees to the terms and conditions of this agreement as the customer.





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crypto-algorithms  
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About

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Note that these are *\*not\** cryptographically secure implementations. They have no resistance to side-channel attacks and should not be used in contexts that need cryptographically secure implementations.

These algorithms are not optimized for speed or space. They are primarily designed to be easy to read, although some basic optimization techniques have been employed.

#### Building

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The source code for each algorithm will come in a pair of a source code file and a header file. There should be no inter-header file dependencies, no additional libraries, no platform-specific header files, or any other complicating matters. Compiling them should be as easy as adding the relevent source code to the project.

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: Philip.Hazel  
Email domain: gmail.com

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Cambridge, England.

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#### PCRE JUST-IN-TIME COMPILATION SUPPORT

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Email local part: hzmester  
Email domain: freemail.hu

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==> libxml2 2.9.12

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==> pixman 0.40.0

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==> shared-mime-info 2.1

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==> util-linux 2.37.2

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==> glib-2.0 2.68.4



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#### THE BASIC LIBRARY FUNCTIONS

-----

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Email local part: Philip.Hazel  
Email domain: gmail.com

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==> mingw-w64-winpthreads 8.0.0

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mingw-w64 version 4.9.1  
mingw-w64 version 5.0.0  
mingw-w64 version 6.2.0  
minisat version 2  
minizip version 1.10  
mlpart version UMPack-42-070413  
mman-win32 version 14  
model\_composer\_examples version 2021.1  
monaco-editor-auto-generated-files version 0.32.0  
more-itertools version 8.12.0  
more-itertools version 8.7.0  
mpfr version 2.6.0  
mpfr version 3.0.1-p4  
mpfr version 3.1.2  
msys2 version 5.0.1  
nandpsu\_xilinx\_driver version 1.3  
networkx version 1.11  
newlib version 3.0  
newlib version 4.1.0



nlview version 6.1.0d  
numpy version 1.18.4  
oasys-rtl version 11.3  
object-assign version 4.1.1  
ocl-icd-devel version 2.2.12  
omega version 1.0  
opencores version or1200  
opencores-usb2.0 version 1.6  
opencores-wb\_conmax version 1.2  
openjdk version 11.0.11\_9  
openmpi version 1.8.4  
openrisc version 1.45  
openssl version 1.0.2q  
openssl version 1.1.1h  
pandas version 1.0.4  
parso version 0.8.2  
pdfjs-pdfjs.github.io version 2.0.943  
perf4j version 0.9.16  
pexpect-pexpect version 4.8  
pexpect-ptyprocess version 0.7.0  
pickleshare-pickleshare version 0.7.5  
picocli version 4.6.1  
pigz version 2.4  
pip version 19.2.3  
pip version 20.2.1  
pmufw version 2020.2  
pprintpp version 0.4.0  
prompt-toolkit version 3.0.18  
prop-types version 15.7.2-0  
protobuf version 3.15.6  
pthreads version 2.6.0  
pthreads version 2.9.1  
pulp version 1.5.6  
pybind11 version 2.5.0  
pydot version 1.0.28  
pyelftools version 0.23  
pygments version 2.8.0  
pygments-pygments version 2.11.2  
pygments-pygments version 2.9.0  
pygraphviz version 1.3rc3  
pyparsing version 2.4.7  
pyperclip version 1.7.0  
python version 3.8.3  
python3 version 3.6.8

python3-pip version 9.0.3  
python-attrs version 18.2.0  
python-backcall version 0.2.0  
python-blessings version 1.7  
python-cm2 version 0.9.6  
python-dateutil version 2.8.1  
python-decorator version 5.0.9  
python-ipython version 7.23.1  
python-jedi version 0.18.0  
pytz version 2020.1  
qt version 4.5.3  
qt version 4.8.4  
rapidjson version 1.1.0  
react version 16.13.1  
react-is version 16.10.2  
react-redux version 7.2.1  
reactstrap version 8.5.1  
redhat-lsb-core version 4.1  
redux version 4.0.5  
redux-promise-middleware version 6.1.2  
redux-thunk version 2.3.0  
rich version 9.12.4  
rich version 9.13.0  
rlwrap version 0.37  
rxtx version 2.1.7  
safeio\_files version 2019.1  
scheduler version 0.19.1  
scikit-learn version 0.23.1  
sdc version 1.70  
setuptools version 41.2.0  
sevenzip version 4.65  
sevenzipjbind version 4.65.1.06  
simple\_server version 3.0.2  
simplejson version 3.17  
six version 1.15.0  
sizzlejs version 1.7.1  
skarupke-flat\_hash\_map version snapshot-20180712  
slf4j version 1.7.12  
smmap version 4.0.0  
softfloat version 2b  
sparse hash version 1.10  
sqlite version 3.28.0  
swingx version 1  
swingx version 1.6.2

swingx version 1.6.3  
symbol-observable version 1.2.0  
systemc version 2.3.1  
tcf agent version 1.1  
tcf plugins version 1.4  
tcl version 8.5.14  
tcl version 8.5.6  
tcllib version 1.11.1  
tcltk version 8.4  
tdom-tdom version 0.8.2  
tessil-hopscotch-map version 2.3.0  
tessil-robin-map version 0.6.3  
tessil-sparse-map version 0.6.3  
theia-plugin-packager version master  
threadpoolctl version 2.1.0  
ti-sc firmware version none  
tinyexpr version 1.0  
tlm version 2.3.0  
tm\_terminal version 4.3  
traitlets version 5.0.5  
treelite version 0.32  
twxs-vs.language.cmake version 0.0.17  
typing-extensions version 3.10.0.2  
u-boot version 2019.2  
u-boot version 2020.2  
umich-umpack version 42-070413  
unzip version 6.0  
uvm version 1.2  
v\_frbuf\_sr\_xilinx\_driver version 2  
v\_hdmirxss\_xilinx\_driver version 4  
v\_mix\_xilinx\_driver version 3  
video\_common\_xilinx\_driver version 4.2  
Visual C++ Redistributable for Visual Studio version 14.29.30133.0  
vscode version 1.43.0  
vscode-builtin-theme-seti version 1.57.1  
vscode-native-debug version 0.25.1  
wcmwidth version 0.2.5  
win32-setctime version 1.0.3  
win32-setctime version 1.1.0  
winp version 1.14  
winpcap version 4.1.3  
xclbinutil version 2021.1  
xdts version 2019.1  
xerces-c version 3.2.3













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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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```
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* cvt - IEEE floating point formatting routines.  
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*
```

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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#  
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#####
```

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>>>> zlib 1.2.11

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

>>>> zlib gpl with exception

```
-----
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#####

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```
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 *  
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make/stub_includes/khr/**
```

make/stub\_includes/openmax/\*\*

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Files:

src/jogamp/graph/geom/plane/AffineTransform.java  
src/jogamp/graph/geom/plane/IllegalPathStateException.java  
src/jogamp/graph/geom/plane/NoninvertibleTransformException.java

src/jogamp/graph/geom/plane/PathIterator.java  
src/jogamp/graph/geom/plane/Path2D.java  
src/jogamp/graph/math/plane/Crossing.java  
src/org/apache/harmony/misc/HashCode.java

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=====

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src/jogamp/graph/font/fonts/ubuntu/\*

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PNGJ

====

PNGJ: Java library for reading and writing PNG images.

Version 1.12 (3 Dec 2012)

<<http://code.google.com/p/pngj/>>

Author: Hernan J. Gonzalez and Shawn Hartsock

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src/jogl/classes/jogamp/opengl/util/pngj/\*\*

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o10=o1=o1=o1p1=

p1Mp1=Pp1}p1=Pq1}q1H=q1q1=q1q1(=q1@r1=@r1r1=r1r1=r1<s1=<s1s1=s1s1=s1St1=St1t1=t1  
t1=t1t1=u1 u1=

u1u1=u1u1<u1u1=u1v1=v1]v1=]v1v1=v1v1z<v1.w1=0w1w1=w1x1=x1~x1=x1x1=x1^y1=`y1y1=y  
1>z1=@z1z1=0

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>>> gpl v3 with bison exception

/\* A Bison parser, made by GNU Bison 3.7.5. \*/

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>>>gplv2/3 lgplv2.1

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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- \* <https://github.com/eclipse/theia-generator-plugin>
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>>>> boost

DRuntime: Runtime Library for the D Programming Language

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

>>> unicode

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```
>>> zlib license
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

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>>>> boost

DRuntime: Runtime Library for the D Programming Language

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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Written by: Philip Hazel <ph10@cam.ac.uk>

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>>> go/debian/copyright

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: golang

Source: <https://github.com/golang/go>

Files: \*

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Files:

src/cmd/compile/internal/gc/gsubr.go  
src/cmd/internal/objabi/autotype.go  
src/cmd/internal/objabi/head.go  
src/cmd/internal/objabi/reloctype.go  
src/cmd/internal/objabi/symkind.go  
src/cmd/internal/obj/arm64/a.out.go  
src/cmd/internal/obj/arm64/asm7.go  
src/cmd/internal/obj/arm64/list7.go  
src/cmd/internal/obj/arm64/obj7.go  
src/cmd/internal/obj/arm/a.out.go  
src/cmd/internal/obj/arm/asm5.go  
src/cmd/internal/obj/arm/list5.go  
src/cmd/internal/obj/arm/obj5.go  
src/cmd/internal/obj/mips/a.out.go  
src/cmd/internal/obj/mips/asm0.go  
src/cmd/internal/obj/mips/list0.go

src/cmd/internal/obj/mips/obj0.go  
src/cmd/internal/obj/ppc64/a.out.go  
src/cmd/internal/obj/ppc64/asm9.go  
src/cmd/internal/obj/ppc64/list9.go  
src/cmd/internal/obj/ppc64/obj9.go  
src/cmd/internal/obj/s390x/asmz.go  
src/cmd/internal/obj/s390x/a.out.go  
src/cmd/internal/obj/s390x/listz.go  
src/cmd/internal/obj/s390x/objz.go  
src/cmd/internal/obj/data.go  
src/cmd/internal/obj/ld.go  
src/cmd/internal/obj/link.go  
src/cmd/internal/obj/pass.go  
src/cmd/internal/obj/sym.go  
src/cmd/internal/obj/x86/a.out.go  
src/cmd/internal/obj/x86/asm6.go  
src/cmd/internal/obj/x86/list6.go  
src/cmd/internal/obj/x86/obj6.go  
src/cmd/link/internal/amd64/asm.go  
src/cmd/link/internal/amd64/l.go  
src/cmd/link/internal/amd64/obj.go  
src/cmd/link/internal/arm64/asm.go  
src/cmd/link/internal/arm64/l.go  
src/cmd/link/internal/arm64/obj.go  
src/cmd/link/internal/arm/asm.go  
src/cmd/link/internal/arm/l.go  
src/cmd/link/internal/arm/obj.go  
src/cmd/link/internal/ld/ar.go  
src/cmd/link/internal/ld/data.go  
src/cmd/link/internal/ld/ld.go  
src/cmd/link/internal/ld/lib.go  
src/cmd/link/internal/ld/link.go  
src/cmd/link/internal/ld/main.go  
src/cmd/link/internal/ld/sym.go  
src/cmd/link/internal/ld/symtab.go  
src/cmd/link/internal/mips/asm.go  
src/cmd/link/internal/mips/l.go  
src/cmd/link/internal/mips/obj.go  
src/cmd/link/internal/mips64/asm.go  
src/cmd/link/internal/mips64/l.go  
src/cmd/link/internal/mips64/obj.go  
src/cmd/link/internal/ppc64/asm.go  
src/cmd/link/internal/ppc64/l.go  
src/cmd/link/internal/ppc64/obj.go

src/cmd/link/internal/s390x/asm.go  
src/cmd/link/internal/s390x/l.go  
src/cmd/link/internal/s390x/obj.go  
src/cmd/link/internal/sym/segment.go  
src/cmd/link/internal/sym/symbols.go  
src/cmd/link/internal/sym/symkind.go  
src/cmd/link/internal/x86/asm.go  
src/cmd/link/internal/x86/l.go  
src/cmd/link/internal/x86/obj.go  
src/cmd/vendor/golang.org/x/arch/x86/x86asm/testdata/libmach8db.c  
src/runtime/memclr\_arm.s  
src/runtime/memmove\_386.s  
src/runtime/memmove\_amd64.s  
src/runtime/memmove\_arm.s  
src/runtime/memmove\_plan9\_386.s  
src/runtime/memmove\_plan9\_amd64.s  
src/runtime/vlop\_386.s  
src/runtime/vlop\_arm.s  
src/runtime/vlrt.go

Origin: Plan 9 from User Space include/, src/lib9/, src/libmach/  
Inferno utils/include/, utils/libmach/, utils/6c/, utils/iar/,  
utils/6l/, utils/6a/, utils/5c/, utils/8c/, utils/iyacc/,  
utils/5l/, utils/6c/, utils/8l/, utils/nm/, utils/cc/,  
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src/debug/dwarf/testdata/typedef.elf

Source: src/debug/dwarf/testdata/typedef.c

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Files:

src/debug/macho/testdata/fat-gcc\*

src/debug/macho/testdata/clang\*

src/debug/macho/testdata/gcc\*

Source: src/debug/macho/testdata/hello.c  
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Files:  
src/debug/elf/testdata/\*-exec  
src/debug/elf/testdata/\*.obj  
src/debug/elf/testdata/hello-world-core.gz  
Source: src/debug/elf/testdata/hello.c  
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Files: src/debug/elf/elf.go  
src/cmd/link/internal/ld/elf.go  
Origin: FreeBSD src/sys/sys/elf{32,64,\_common}.h, src/sys/\*/include/elf.h  
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src/math/cmplx/exp.go  
src/math/cmplx/log.go  
src/math/cmplx/pow.go  
src/math/cmplx/sin.go  
src/math/cmplx/sqrt.go  
src/math/cmplx/tan.go  
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src/math/acosh.go  
src/math/asinh.go  
src/math/atanh.go  
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src/math/exp.go  
src/math/expm1.go

src/math/j0.go  
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Origin: Translated from idct.c in the MPEG-2 (ISO/IEC 13818-4) technical report video software verifier (mpeg2decode) version 960109

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// <https://bitbucket.org/inferno-os/inferno-os/src/default/utils/5l/span.c>

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```
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```

```
// Package loadmacho implements a Mach-O file reader.
package loadmacho
```

```
import (
    "bytes"
    "cmd/internal/bio"
    "cmd/internal/objabi"
    "cmd/internal/sys"
    "cmd/link/internal/sym"
    "encoding/binary"
    "fmt"
    "io"
    "sort"
)
```

```
/*
Derived from Plan 9 from User Space's src/libmach/elf.h, elf.c
http://code.swtch.com/plan9port/src/tip/src/libmach/
```

```
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// This Go implementation is derived in part from the reference

// ANSI C implementation, which carries the following notice:

//

// rijndael-alg-fst.c

//

// @version 3.0 (December 2000)

//

// Optimised ANSI C code for the Rijndael cipher (now AES)

//

// @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

// @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

// @author Paulo Barreto <paulo.barreto@terra.com.br>

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```

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```

```
package jpeg
```

```
// This file implements a Forward Discrete Cosine Transformation.
```

```
/*
It is based on the code in jfdctint.c from the Independent JPEG Group,
found at http://www.ijg.org/files/jpegsrc.v8c.tar.gz.
```

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>>>>

// Original source:

// <http://www.zorinaq.com/papers/md5-amd64.html>

// <http://www.zorinaq.com/papers/md5-amd64.tar.bz2>

//

// Translated from Perl generating GNU assembly into

// #defines generating 6a assembly by the Go Authors.

#include "textflag.h"

// MD5 optimized for AMD64.

//

// Author: Marc Bevand <bevand\_m (at) epita.fr>

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```

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```
# Originally written by Per Bothner; maintained since 2000 by Ben Elliston.
```

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```
# Please send patches to <config-patches@gnu.org>.
```

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//  
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//
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```
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```

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/* Extended regular expression matching and search library,
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scriptversion=2013-05-30.07; # UTC

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_snprintf.c:

```
*  
* cvt - IEEE floating point formatting routines.  
*   Derived from UNIX V7, Copyright(C) Caldera International Inc.  
*
```

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\* Paolo Abeni <paolo.abeni@email.it>  
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\*

\* Developers:

\* David K. Hess, Douglas Lee Schales, David R. Safford

\*

\* Heavily modified for Metaware HighC + GNU C 2.8+

\* Gisle Vanem 1998

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```
m4_if(m4_defn([AC_AUTOCONF_VERSION]), [2.68],,  
[m4_warning([this file was generated for autoconf 2.68.  
You have another version of autoconf. It may work, but is not guaranteed to.  
If you have problems, you may need to regenerate the build system entirely.  
To do so, use the procedure documented by the package, typically `autoreconf'.])])
```

```
# libtool.m4 - Configure libtool for the host system. -*-Autoconf-*-  
#  
# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005,  
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```
printf( Xilinx hw_server v s HWSERVER_VERSION) printf( Build date s at s date_stamp  
time_stamp) printf( Copyright 1986- s Xilinx Inc. All Rights Reserved. date_stamp +  
strlen(date_stamp) - 4)
```

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* Colin Plumb's implementation has been reused; this comment merely compares  
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*  
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//  
// Author: wan@google.com (Zhanyong Wan)
```

```
// Google Mock - a framework for writing C++ mock classes.
```

```
>>>> googletest  
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* MD5 Message-Digest Algorithm (RFC 1321).
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* Homepage:
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PROGRAM OFFERING GUIDE

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## Part One: License Offerings

### 1. License Options

#### 1.1. Individual License Option

#### 1.2. Designated Computer License Option

#### 1.3. Network Named User License Option

#### 1.4. Concurrent License Option

#### 1.5. Total Headcount License Option

#### 1.6. Remote Desktop, Shared Desktop, and Web Applications

### 2. License Uses

2.1. Standard

2.2. Educational Institutions

2.2.1. Academic

2.2.2. Classroom

2.2.3. Total Academic Headcount

2.2.4. Total Student Headcount

2.2.5. Primary and Secondary School

2.3. Student

2.4. Home

3. Specific Program Use Rights

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3.1.1. General MDCS Use Rights

3.1.2 MDCS On-Demand Use Rights

3.2. MATLAB Production Server

Part Two: Deployment Rights

1. Deployment Rights for User Files

2. Deployment Rights for Derivative Forms

3. Deployment Rights for Generated Forms and Applications

3.1. MATLAB Compiler

3.2. Coder Programs

3.3. Simulink Real-Time

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### 3.5. MAT-Files

## 4. Application License

Part Three: Transformation Programs

Part Four: Software Maintenance Service

Part Five: Glossary of Terms

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(iv) The Licensee may redesignate the Computer, whether temporarily or not, up to four (4) times in any twelve (12) month period.

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(i) The Network Named User License Option provides for a specified number of designated Named Users to use the Programs on any Computer that is connected to the same, single License Manager.

(ii) The License Manager must be activated on a single Computer.

(iii) The Programs may be operated by Named Users on Computers served by the same, single License Manager up to the maximum number of Named Users licensed for each Program.

(iv) A Named User may not use a Program on more than two (2) Computers simultaneously.

(v) The Programs may be installed in a central location or on individual Computers to accelerate startup times as long as the use on all Computers is controlled by the same, single License Manager.

(vi) The Licensee may redesignate the Named Users for a Program, whether temporarily or not, up to four (4) times in any twelve (12) month period.

(vii) A Computer login of a Named User may not be shared with any other individual.

(viii) The Network Named User License Option is only available for Standard License Use.

## 1.4. Concurrent License Option<sup>[fn1]</sup>

(i) The Concurrent License Option provides for a specified number of concurrent keys for each Program on the License that may be used simultaneously by Licensed Users on any Computer that is connected to the same, single License Manager.

(ii) Before using a Program on any Computer, the Licensed User must check out a separate concurrent key from the License Manager for that Computer.

(iii) The License Manager must be activated on a single Computer.

(iv) The Programs may be installed in a central location or on individual Computers to accelerate startup times as long as the use on all Computers is controlled by the same, single License Manager.

(v) Licensees are prohibited from providing Program access to users located outside the Country<sup>[fn2]</sup> for which the Program is licensed unless Licensee has contracted for global use.

(vi) For Academic and Classroom License Uses, installation of the Programs on students' own Computers is not permitted.

#### 1.5. Total Headcount License Option

(i) The Total Headcount License Option provides for use of the Programs by a certain institution, organization, location, or other identified group of users, in accordance with the Total Academic Headcount, Total Student Headcount, and Primary and Secondary Schools License Uses described in Section 2 below.

#### 1.6. Remote Desktop, Shared Desktop, and Web Applications This section applies to all License Options above.

(i) Remote Desktop: A Licensed User may remotely access Programs using the Microsoft(r) Remote Desktop connection feature or similar technologies. For the Designated Computer License Option, only one named Licensed User may remotely access the Programs, such Licensed User not to be redesignated more than four (4) times in any twelve (12) month period.

(ii) Shared Desktop: A Licensed User may share remotely the desktop view of a Program session with another individual for assistive or demonstrative purposes only, using Microsoft(r) Remote Assistance technology, Skype(r) conferencing software, or similar technologies.<sup>[fn3]</sup>

(iii) Web Applications: Programs licensed under the Individual, Network Named User, Concurrent, and Total Headcount License Options may be called by means of a web interface or web application in accordance with the conditions in this section. Programs licensed under the Designated Computer License Option may not be called by means of a web interface or web application. For Individual and Network Named User License Options, web applications may be



accessed only by the Named Users for the licensed Programs. For the Concurrent and Total Headcount License Options, web applications may be provided to an unlimited number of web browser clients, at no additional cost, for Licensee's own use for its Internal Operations, and for use by Third Parties. Web applications must not: provide access to the MATLAB command line or any Transformation Program; provide access to an entire Program or a substantial portion of a Program; or enable evaluation of end-user code or expressions.

## 2. License Uses

### 2.1. Standard

(i) Standard Licenses are available for commercial, government, or other organizational use and are restricted to Internal Operations.

(ii) The Standard License is available under any of the License Options described above except for the Total Headcount License Option.

### 2.2. Educational Institutions

(i) Educational Institution Licenses are available solely to degree-granting educational institutions and primary and secondary schools licensing the Programs for Academic Internal Operations.

(ii) Use rights and associated License Options are determined based on the type of License acquired: Academic, Classroom, Total Academic Headcount, Total Student Headcount, or Primary and Secondary Schools.

(iii) Technical support and installation support are available for faculty and academic staff. Installation support is available for students.

#### 2.2.1. Academic

(i) Program use is restricted to individuals listed in the definition of Academic Internal Operations (see Glossary).

(ii) The Academic License is available under any of the Individual, Designated Computer or Concurrent License Options.

#### 2.2.2. Classroom

(i) Program use is restricted to students, instructors, and software administrators in on-campus facilities that are used solely in support of classroom instruction of students.

(ii) The Classroom License is available under either the Designated Computer or Concurrent License Option.

(iii) Research use is not permitted.

#### 2.2.3. Total Academic Headcount

(i) Program use is restricted to all faculty, researchers, and students on institution-owned or leased Computers as well as personally-owned or leased Computers and solely under the Total Headcount License Option.

#### 2.2.4. Total Student Headcount

(i) Program use is restricted to all students of the institution on student-owned Computers and solely under the Total Headcount License Option.

#### 2.2.5. Primary and Secondary School

(i) Program use is restricted to all faculty, academic staff, and students of the school on teachers' Computers, school-owned Computers or student-owned Computers.

(ii) Primary and Secondary School Licenses are available solely to primary and secondary schools under the Total Headcount License Option.

(iii) Each Primary and Secondary School License is limited to a single physical address.

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(i) Student Licenses may be licensed by students enrolled in degree-granting educational institutions, or primary and secondary schools, or those participating in a continuing education program at a degree-granting educational institution. A Licensee may use the Programs only on a single physical (not virtual) Computer owned or leased by the student.

(ii) A Student License may also be licensed by teachers at primary and secondary schools for course preparation and teaching, and the Student License may be installed on the teacher's own Computer or school-owned Computers.

(iii) A Student License may not be used for activities that are commercial, for profit, professional (except for primary and secondary school teachers using the License for the purpose of teaching at such schools), government, or revenue-generating.

(iv) The Programs may only be accessible to, and used by, the Licensee.

(v) Technical support for Student Licensees is limited to installation support.

(vi) A Student License is not transferable.

(vii) Returns and refunds of Student License purchases are subject to the refund policies at the time and point of purchase.

## 2.4. Home

(i) A Home License may be licensed by an individual and may be used only for personal use. A Home License may not be used for activities that are commercial, for profit, professional, academic, government, or revenue-generating.

(ii) A Licensee of a Home License may use the Programs only on a single physical (not virtual) Computer owned or leased by the Licensee.

(iii) The Programs may only be accessible to, and used by, the Licensee.

(iv) Technical support for Home Licensees is limited to installation support.

(v) A Home License is not transferable.

(vi) Returns and refunds of Home License purchases are subject to the refund policies at the time and point of purchase.

## 3. Specific Program Use Rights

### 3.1. MATLAB Distributed Computing Server ("MDCS")

#### 3.1.1. General MDCS Use Rights

Licensed Users of MDCS may run simultaneous sessions of certain Programs on one or more Computers through MDCS, subject to the restrictions below:

(i) For all License Uses except Total Academic Headcount: (1) all Programs being run on each MDCS must be controlled by the same, single License Manager, and (2) the number of simultaneous Program sessions by all Licensed Users may not exceed the number of MDCS workers licensed. (MDCS On-Demand allows you to scale the number of MDCS workers licensed. See Section 3.1.2 below for details.)

(ii) If you have a Total Academic Headcount License: (1) the Programs may be controlled by separate License Managers, and (2) the number of simultaneous Program sessions by each Licensed User may not exceed the number of MDCS workers licensed.

(iii) You must have access to a valid license to Parallel Computing Toolbox and any Programs you wish to use with MDCS in order to be able to run sessions of such Programs through MDCS. Access to the MDCS worker must be enabled through a validly licensed use of Parallel Computing Toolbox.

(iv) Access to MDCS may not be made available to any user outside the country for which MDCS is licensed, unless the Licensee has contracted for global use or is using an Educational Institution License.

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Some Programs are technically prevented from being compiled, distributed, called from a web application, or used with MDCS.

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### 3.1. MATLAB Compiler

If you license the MATLAB Compiler, you may create and deploy Applications generated by the MATLAB Compiler that meet the requirements of this Section and comply with the restrictions in the Software License Agreement.

These Applications may include compiled versions of MATLAB code files, but only as required for the Application and from Programs that you have licensed. You may also use and distribute the MATLAB Runtime together with these Applications for the sole purpose of running the Applications. However, you are prohibited from making copies of the MATLAB Runtime accessible to any Third Party separate from or for use other than with your Application, and from providing the MATLAB Runtime for service bureau or similar service use.

If you license the Parallel Computing Toolbox (PCT) and generate an Application using any functionality of the PCT, that Application may enable up to the number of workers provided by the PCT used to build the Application. End-users of your Application do not need to have a license to the PCT.

Your exercise of any of the rights granted here is subject to the restrictions in the Software License Agreement, including the following:

- i) You may not distribute any library header files.
- ii) You may not use your Application to enable access to the code generation capabilities of Programs or the capabilities of other Transformation Programs.
- iii) Your Application may not provide capability similar to the capabilities of any of Programs, or provide functionality or behavior similar to that of the MATLAB command line or scripting and programming capabilities. Your Application also may not enable evaluation of end-user code or expressions.
- iv) Your Application may not provide access to all or a substantial portion of a Program.
- v) You must include the notice "MATLAB(r). (c) 1984 - [INSERT YEAR MATLAB VERSION PUBLISHED] The MathWorks, Inc." in your Application's About Box, or similar visible location, and in the applicable documentation distributed with each copy of your Application.

vi) You may not modify or remove any proprietary notices included with Programs or Program Components.

### 3.2. Coder Programs

This Section discusses the deployment rights MathWorks grants you in conjunction with your license and use of the Coder Programs: 1) MATLAB Coder, 2) Simulink Coder, 3) Embedded Coder, 4) HDL Coder, 5) Filter Design HDL Coder, and 6) Simulink PLC Coder.

The Coder Programs take content that you choose to input. Depending on the Coder Program you use, the input could be a Simulink model, a Stateflow diagram, or MATLAB code. The Coder Program then converts this input to code in C/C++, VHDL/Verilog or PLC structured text. You may copy and deploy these Generated Forms for use outside of the Programs.

In order to enable this output code to work, each of these Coder Programs will link in certain files proprietary to MathWorks, which may include C, C++, Assembly, linker command files, template makefiles, project files, or TLC source code files. You may only copy, modify, and deploy these proprietary MathWorks files in Source Code or Linked Object Code form for different development targets when used with the Coder Programs or with code generated by the Coder Programs as part of, and only as required by, a larger standalone application. A standalone application is an Application created using programming languages and tools other than the Programs, which executes outside of the Programs.

### 3.3. Simulink Real-Time

You may use Simulink Real-Time to develop Applications that include Object Code derived from Program Components of Simulink Real-Time that are required by the Application and that have been compiled or otherwise obtained from Simulink Coder on a single development Computer, download that Application to a target Computer, and distribute that Application beyond the target Computer.

### 3.4. API Code

Programs you license may include selected Source Code and shared Object Code library files that implement various documented application programming interface (API) capabilities.

You may use and modify such Source Code files solely for creation of your own Application. You may copy and distribute Object Code compiled from this Source Code, but only as either a standalone Object Code file or Object Code linked to your Application, and only for use with and deployment of your own Application.

You may use, copy and distribute shared Object Code library files from the Programs for deployment of your own Application, but only if a header file exists in the Program for the shared library file. However, you may not copy or distribute the header files. You may not

transfer Source Code, development rights or development capabilities for any Source Code or Object Code from the Programs to any Third Party.

### 3.5. MAT-Files

You may create and distribute Applications that read MAT-files using the MAT-file API, but if you distribute such Applications to third parties, they must also implement MAT-file write capability.

### 4. Application License

If you are distributing an Application, you must accompany the Application with a written Application License. See the Glossary for Application License requirements. The only exceptions to this requirement are when you are distributing an Application solely for Internal Operations, or within an embedded system not covered by a license agreement.

## PART THREE: TRANSFORMATION PROGRAMS

The Transformation Programs are:

MATLAB Coder

Simulink Coder

Embedded Coder

HDL Coder

GPU Coder

Filter Design HDL Coder

Simulink PLC Coder

MATLAB Compiler

MATLAB Compiler SDK

Simulink Design Verifier

Simulink Code Inspector



MATLAB Report Generator

Simulink Report Generator

Section 3.14 of the Software License Agreement states that you are not permitted to "create a server or automated system for the Transformation Programs without obtaining a license from MathWorks that expressly allows such use."

Without express consent from MathWorks, the Transformation Programs may not be used:

- \* in an automated, batched, or unattended process for software development, validation, verification, deployment, or report generation (e.g., server farm, cluster, grid, build system, continuous integration system, regression server, or data center), or

- \* by an individual acting as a server or automated system for processing the artifacts of other individuals.

#### PART FOUR: SOFTWARE MAINTENANCE SERVICE

MathWorks Software Maintenance Service is required in order to receive the following services:[fn4]

- \* Product updates with new features, enhancements, and bug fixes

- \* Direct technical support by phone, email, and web

- \* Ability to add new Programs[fn5]

- \* Access and storage for online services including MATLAB Mobile, MATLAB Drive, and MATLAB Online

- \* Access to prereleases of Programs that are available for pre-release

- \* Add-ons and Hardware Support Packages via Add-On Explorer

- \* Converting License Option[fn6]

- \* Transferring Programs[fn5,fn6]

- \* Changing country of Licensed Users or changing License to global use[fn6]

- \* Enhanced web access to trial licenses of Programs

You must keep your Software Maintenance Service up to date to receive these services uninterrupted. For Annual and Term licenses, the associated Software Maintenance Service will expire automatically at the end of the term. For Perpetual licenses, the first year of Software Maintenance Service is included with the initial purchase and you must renew annually after that.

Fees for subsequent year Software Maintenance Service renewals are calculated based on the Programs and License Offering. Software Maintenance Service must be purchased for a minimum of one year (12 months) forward.

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If your Software Maintenance Service has expired without being renewed, you may reinstate it by paying the fees described below. Reinstating will provide access to all Software Maintenance Service services available at the time of reinstatement, including the latest versions of Programs licensed. Your quote to reinstate lapsed Software Maintenance Service for Programs will include fees for annual renewal, including any applicable back maintenance fees for the lapsed period, and reinstatement fees if applicable. A reinstatement fee is applied to Software Maintenance Service for any Program that has lapsed for more than 3 months beyond the renewal date. These fees are subject to change.

#### PART FIVE: GLOSSARY OF TERMS

"Academic Internal Operations" means the use of the Programs by enrolled students, employees (faculty and academic staff), and other academic staff (including visiting professors and researchers), provided that such other academic staff have been granted institution email accounts and internal network login privileges by the Licensee. Such use must be in accordance with the Educational Institutions License Use acquired, for the purpose of (i) in the case of employees and other academic staff, performing software administration, teaching, and noncommercial, academic research in their ordinary course; and (ii) in the case of enrolled students, meeting classroom requirements of courses and study offered by the Licensee.

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"Coder Programs" means Simulink Coder, MATLAB Coder, Embedded Coder, HDL Coder, Filter Design HDL Coder, Simulink PLC Coder, and GPU Coder.

"Derivative Form" means a software file that Licensee has derived from one or more Program Components (including without limitation by incorporating, translating, or modifying, in whole or in part, any Program Component), and which, if modified or copied without MathWorks' authorization, would constitute a copyright infringement or breach of the Agreement. A software file created by Licensee which qualifies as an "Application" under the above definition shall not be deemed a Derivative Form.

"Generated Form" means the output of the Transformation Programs in the form of Source Code or Object Code, as well as such Source Code converted to Object Code or Linked forms.

"Internal Operations" means the use of a Program by employees, consultants, student interns, and software administration contractors of Licensee or an Affiliate on behalf of the Licensee or Affiliate.

"Linked" means an executable or loadable file created by a compiler or linker program combining Object Code module files.

"MATLAB Runtime" means MATLAB Runtime support libraries and other files for deployment of Applications created with the MATLAB Compiler. MATLAB Runtime is a Program Component of the MATLAB Compiler.

"Named User" means a Licensed User, that must be an individual, designated and identified by the Licensee as the "Named User" for a License to a Program, and in respect to the Network Named User License Option, listed in the Local License Options File.

"Object Code" means the code created by a system compiler from source code; also called "machine-readable code." Object Code can be Linked with an appropriate linker to resolve address references and may be combined with other Object Code for targeted execution on a specific processor. Object Code includes "Object Code libraries" and "shared libraries," which are groupings of Object Code for specific purposes.

"Program" means the software licensed under the Software License Agreement, including Program Components, Documentation, enhancements, and error corrections. Each product licensed is a separate Program.

"Program Component" means any portion of, or file provided with, a Program.

"Source Code" means human-readable program code written in a higher-level language such as C, C++, Java, MATLAB, MDL, SLX, VHDL, Verilog, or Fortran, which must be translated or compiled into machine-readable code before it can be executed by a computer. Source Code also includes header files and other human-readable files necessary for a Program to be compiled in the higher-level language.

"Transformation Programs" are the Programs listed in Part Three.

## FOOTNOTES

[fn1] Details for MDCS and MATLAB Production Server vary. See Section 3 below.

[fn2] Solely in respect to a Concurrent License Option licensed for a Standard License Use, "Country" means in respect to member countries of the North American Free Trade Agreement ("NAFTA"), all such countries collectively; and in respect to Iceland, Norway, Switzerland, and member countries of the European Union ("EU"), all such countries collectively.

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```

```
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/**
```

```
*****
```

```
* @file  stm32f7xx_ll_usb.h  
* @author MCD Application Team  
* @version V1.0.1  
* @date 25-June-2015  
* @brief Header file of USB Core HAL module.
```

```
*****
```

```
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\* This file is part of the Micro Python project, <http://micropython.org/>

\*

\* These math functions are taken from newlib-nano-2, the newlib/libm/math

\* directory, available from <https://github.com/32bitmicro/newlib-nano-2>.

\*

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\*/

/\* ef\_rem\_pio2.c -- float version of e\_rem\_pio2.c

\* Conversion to float by Ian Lance Taylor, Cygnus Support, [ian@cygnus.com](mailto:ian@cygnus.com).

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* =====
*
*/
```

>>>>

```
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/-----*/
```

>>> sha256

```
/******
* Filename: sha256.c
* Author: Brad Conte (brad AT bradconte.com)
* Copyright:
* Disclaimer: This code is presented "as is" without any guarantees.
* Details: Implementation of the SHA-256 hashing algorithm.
          SHA-256 is one of the three algorithms in the SHA2
          specification. The others, SHA-384 and SHA-512, are not
          offered in this implementation.
          Algorithm specification can be found here:
          * http://csrc.nist.gov/publications/fips/fips180-2/fips180-2withchangenotice.pdf
          This implementation uses little endian byte order.
*****/
```

>>>> tiny test

```
/* tinytest.h -- Copyright 2009-2012 Nick Mathewson
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version 1.2.8, April 28th, 2013
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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

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```
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```

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>>> bsd 3 license

```
/*     $NetBSD: profile.h,v 1.6 1995/03/28 18:17:08 jtc Exp $     */
```

```
/*
```

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*
* @(#)profile.h 8.1 (Berkeley) 6/11/93
*/
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>>> lgpl 2.1 or later

```
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*/
```

```
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```
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```
>>> python license
```

```
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=====
```

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

<https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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Constants used in the `rk_double` implementation by Isaku Wada.

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- \* This differs from Colin Plumb's older public domain implementation in that
- \* no exactly 32-bit integer data type is required (any 32-bit or wider
- \* unsigned integer data type will do), there's no compile-time endianness
- \* configuration, and the function prototypes match OpenSSL's. No code from
- \* Colin Plumb's implementation has been reused; this comment merely compares
- \* the properties of the two independent implementations.
- \*
- \* The primary goals of this implementation are portability and ease of use.
- \* It is meant to be fast, but not as fast as possible. Some known
- \* optimizations are not included to reduce source code size and avoid
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for  
Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950>  
(zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

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>>>> libjpeg

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\* This file contains the code to link the Java Image I/O JPEG plug-in  
\* to the IJG library used to read and write JPEG files. Much of it has  
\* been copied, updated, and annotated from the jpegdecoder.c AWT JPEG  
\* decoder. Where that code was unclear, the present author has either  
\* rewritten the relevant section or commented it for the sake of future  
\* maintainers.  
\*  
\* In particular, the way the AWT code handled progressive JPEGs seems  
\* to me to be only accidentally correct and somewhat inefficient. The  
\* scheme used here represents the way I think it should work. (REV 11/00)  
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible© (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
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| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
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| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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#### Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.

- Arguments more compliant with Python standard

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([supercop/crypto\\_auth/siphash24/little](https://github.com/sneves/supercop/blob/master/crypto_auth/siphash24/little))

djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/sneves/supercop/blob/master/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

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libmpdec

The `_decimal` module is built using an included copy of the `libmpdec` library unless the build is configured `--with-system-libmpdec`:

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W3C C14N test suite

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.3 | 2.1.2 | 2002      | PSF | yes |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
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| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
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| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
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| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
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/\* main.c: main(), initialisation and cleanup

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#
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>>>>
```

```
"""This module contains the _EstimatorPrettyPrinter class used in
BaseEstimator.__repr__ for pretty-printing estimators"""
```

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```
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mkdepend : generate dependency information from C/C++ files

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Modified heavily by David Gravereaux <davygrvy@pobox.com> about 9/17/2006. Original can be found @  
<http://web.archive.org/web/20070616205924/http://www.doc.ic.ac.uk/~np2/software/mkdepend.html>

=====  
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- 3) ./generic/regc\_cvec.c
- 4) ./generic/regc\_nfa.c
- 5) ./generic/regerror.c
- 6) ./generic/regguts.h
- 7) ./generic/regfronts.c
- 8) ./generic/regfree.c
- 9) ./generic/regc\_lex.c
- 10) ./generic/regcustom.h
- 11) ./generic/rege\_dfa.c
- 12) ./generic/regcomp.c

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- 3) `./generic/regc_cvec.c` - "Notes: Only (selected) functions in `_this_file` should treat `chr*` as non-constant."
- 4) `./generic/regc_nfa.c` - "One or two things that technically ought to be in here are actually in `color.c`, thanks to some incestuous relationships in the color chains."
- 6) `./generic/regguts.h` - "Environmental customization. It should not (I hope) be necessary to alter the file you are now reading -- `regcustom.h` should handle it all, given care here and elsewhere."
- 8) `./generic/regfree.c` - "You might think that this could be incorporated into `regcomp.c`, and that would be a reasonable idea... except that this is a generic function (with a generic name), applicable to all compiled Res regardless of the size of their characters, whereas the stuff in `regcomp.c` gets compiled once per character size."
- 9) `./generic/regc_lex.c` - "scanning macros (know about v)"
- 10) `./generic/regcustom.h` - "Headers if any."

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A Bison parser, made by GNU Bison 2.3.

Skeleton implementation for Bison's Yacc-like parsers in C

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Identify Bison output.

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This file implements the dlopen and dlsym APIs under the AIX operating system, to enable the Tcl "load" command to work. This code was provided by Jens-Uwe Mager.

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@(#)dlfcn.c 1.7 revision of 95/08/14 19:08:38

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\* This file implements functions that inspect CFBundle structures  
\* on MacOS X.

\*

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This page acknowledges those who provided great help in building the initial version of treelite:

- \* Treelite builds upon Philip's earlier work at **Paul G. Allen School of Computer Science and Engineering, University of Washington at Seattle**, which was performed under the guidance of **Carlos Guestrin** and **Arvind Krishnamurthy**.
- \* **Tianqi Chen** (member of DMLC) offered many great ideas for the conception of the project. He also provided feedback pertaining to API design.
- \* **Mu Li** (member of DMLC) provided advice and resources to develop treelite into a full-fledged open source project.
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```

Summary:

=====

This directory contains the source code for U-Boot, a boot loader for Embedded boards based on PowerPC, ARM, MIPS and several other processors, which can be installed in a boot ROM and used to initialize and test the hardware or to download and run application code.

The development of U-Boot is closely related to Linux: some parts of the source code originate in the Linux source tree, we have some header files in common, and special provision has been made to support booting of Linux images.

Some attention has been paid to make this software easily configurable and extendable. For instance, all monitor commands are implemented with the same call interface, so that it's very easy to add new commands. Also, instead of permanently adding rarely used code (for instance hardware test utilities) to the monitor, you can load and run it dynamically.

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bzip2/libbzip2 version 1.0 of 21 March 2000

This program is based on (at least) the work of:

Mike Burrows  
David Wheeler  
Peter Fenwick  
Alistair Moffat  
Radford Neal  
Ian H. Witten  
Robert Sedgewick  
Jon L. Bentley

For more information on these sources, see the manual.

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 * DNS support driver
 *
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 * Copyright (c) 2009 Robin Getz <rgetz@blackfin.uclinux.org>
 *
 * This is a simple DNS implementation for U-Boot. It will use the first IP
 * in the DNS response as NetServerIP. This can then be used for any other
 * network related activities.
 *
 * The packet handling is partly based on TADNS, original copyrights
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 *
```

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*/
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```
* \brief span class based on ISO++20 span
*
* About NOLINTs in this file:
*
* If we want Span to work with std interface, like range for loop, the
* naming must be consistent with std, not XGBoost. Also, the interface also
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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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