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1.1 Bawk 1.1

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*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* \( X^{32}+X^{26}+X^{23}+X^{22}+X^{16}+X^{12}+X^{11}+X^{10}+X^8+X^7+X^5+X^4+X^2+X^1+X^0 \)
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The \( X^{32} \) term is "implied"; the LSB is the
* \( X^{31} \) term, etc. The \( X^0 \) term (usually shown as "+1") results in
* the MSB being 1
*
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly
*
* The feedback terms table consists of 256, 32-bit entries. Notes
*
* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values
* The values must be right-shifted by eight bits by the "updcrc logic; the shift must be unsigned (bring in zeroes). On some hardware you could probably optimize the shift in assembler by using byte-swap instructions polynomial $edb88320 */

1.6 DCE/RPC 1.1 :r0.7
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1.8 X 11 :6

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X Window System, Version 11, Release 6

Release Notes

Stephen Gildea

X Consortium

May 16, 1994

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Many companies and individuals have cooperated and worked extremely hard to make this release a reality, and our thanks go out to them. You will find many of them listed in the acknowledgements in the individual specifications. Major implementation contributions come from Data General, Digital, Fujitsu, HP, NCD, NCR, Omron, SGI, Sony, SunSoft, and XFree86.

Contributions were received from the follow people at various X Consortium member companies. Each X Window System release is the work of many, many people, and this list is surely incomplete.

Fresco
Mark Linton (Silicon Graphics); Chuck Price (SunSoft); Charles Brauer (Fujitsu); Steve Churchill (Fujitsu); Steve Tang (Stanford University); Douglas Pan (Fujitsu); Jean-Daniel Fekete (2001 S.A.)

Xlib
Courtney Loomis (Hewlett-Packard Company); Daniel Dardailler (Open Software Foundation)

Xlib internationalization
The manager of the internationalization project is Masahiko Narita (Fujitsu). The principal authors of Input Method Protocol document are Hideki Hiura (SunSoft) and Masahiko Narita (Fujitsu). The principal authors of Xlib specification Chapter 13 are Hideki Hiura (SunSoft) and Shigeru Yamada (Fujitsu OSS). The principal producers of the sample implementation of the internationalization facilities are Jeffrey Bloomfield (Fujitsu OSS), Takashi Fujiwara (Fujitsu), Hideki Hiura (SunSoft), Yoshio Horiuchi (IBM), Makoto Inada (Digital), Hiromu Inukai
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(Nihon SunSoft), Song JaeKyung (KAIST), Riki Kawaguchi (Fujitsu), Franky Ling (Digital), Hiroyuki Miyamoto (Digital), Hidetoshi Tajima (HP), Toshimitsu Terazono (Fujitsu), Makoto Wakamatsu (Sony), Masaki Wakao (IBM), Shigeru Yamada (Fujitsu OSS) and Katsuhisa Yano (Toshiba). The coordinators of the integration, testing, and release of this implementation are Nobuyuki Tanaka (Sony) and Makoto Wakamatsu (Sony). Others who have contributed on the architectural design or the testing of sample implementation are Hector Chan (Digital), Michael Kung (IBM), Joseph Kwok (Digital), Hiroyuki Machida (Sony), Nelson Ng (SunSoft), Frank Rojas (IBM), Yoshiyuki Segawa (Fujitsu OSS), Makiko Shimamura (Fujitsu), Shoji Sugiyama (IBM), Lining Sun (SGI), Masaki Takeuchi (Sony), Jinsoo Yoon (KAIST) and Akiyasu Zen (HP).

Xt Intrinsics
Douglas Rand (Open Software Foundation), parameterized selections; Paul Asente (Adobe Systems Incorporated), extension event handling; Ajay Vohra (SunSoft), support for multithreading; Sam Chang (Novell), widget caching research; Larry Cable (SunSoft), object allocation and change managed set; Vania Joloboff (Open Software Foundation); Courtney Loomis (Hewlett-Packard Company); Daniel Dardailler (Open Software Foundation); and Ellis Cohen (Open Software Foundation). The following people at Georgia Tech contributed the extensions for disability access: Keith Edwards, Susan Liebeskind, Beth Mynatt, and Tom Rodriguez.

Athena Widget Set
Frank Sheeran (Omron Data General)

X Logical Font Description
Paul Asente (Adobe Systems Incorporated); Nathan Meyers (Hewlett-Packard Company); Jim Graham (Sun); Perry A. Caro (Adobe Systems Incorporated)

Font Support Enhancements
Nathan Meyers (Hewlett-Packard Company), implementation of matrix enhancement, glyph caching, scalable aliases, sample authorization protocol

X Transport Library
Stuart R. Anderson (AT&T Global Information Solutions)

X Keyboard Extension
Erik Fortune (Silicon Graphics), design and sample implementation; Jordan Brown (Quarterdeck Office Systems); Will Walker (Digital Equipment Corporation), AccessX portion; Mark Novak (Trace Center), AccessX portion

Low-Bandwidth X
Jim Fulton (Network Computing Devices); Dave Lemke (Network Computing
Devices); Dale Tonogai (Network Computing Devices); Keith Packard (Network Computing Devices); Chris Kantariev (Xerox PARC)

X Image Extension
Bob Shelley (AGE Logic), protocol architect, lead implementation architect; Larry Hare (AGE Logic), server implementation; Dean Verheiden (AGE Logic), server implementation; Syd Logan (AGE Logic), xieperf; Gary Rogers (AGE Logic), JPEG code, XIElib documentation; Ben Fahy (AGE Logic), client and server implementation

ICCCM
Stuart Marks (SunSoft); Gabe Beged-Dov (Hewlett-Packard Company); Chan Benson (Hewlett-Packard Company); Jordan Brown (Quarterdeck Office Systems); Larry Cable (SunSoft); Ellis Cohen (Open Software Foundation); Brian Cripe (Hewlett-Packard Company); Susan Dahlberg (Silicon Graphics); Peter Daifuku (Silicon Graphics); Andrew deBlois (Open Software Foundation); Clive Feather (IXI); Christian Jacobi (Xerox PARC); Bill Janssen (Xerox PARC); Vania Joloboff (Open Software Foundation); Phil Karlton (Silicon Graphics); Mark Manasse (Digital Equipment Corporation); Todd Newman (Silicon Graphics); Keith Taylor (Hewlett-Packard Company); Jim VanGilder (Digital Equipment Corporation); Mike Wexler (Kubota Pacific); Michael Yee (Apple Computer)

ICE
Jordan Brown (Quarterdeck Office Systems); Vania Joloboff (Open Software Foundation); Stuart Marks (SunSoft)

XSMP
Mike Wexler (Kubota Pacific); Jordan Brown (Quarterdeck Office Systems); Ellis Cohen (Open Software Foundation); Vania Joloboff (Open Software Foundation); Stuart Marks (SunSoft)

SYNC Extension
Tim Glauert (Olivetti Research Limited); Dave Carver (Digital Equipment Corporation); Jim Gettys (Digital Equipment Corporation); Pete Snider (Digital Equipment Corporation)

RECORD
Martha Zimet (Network Computing Devices); Robert Chesler (Absol-puter); Kieron Drake (UniSoft); Marc Evans (Synergytics); Jim Fulton (Network Computing Devices); Ken Miller (Digital Equipment Corporation)

X Input Extension tests
George Sachs (Hewlett-Packard Company)

PEX
Ken Garnett (Shographics); Cheryl Huntington (Sun Microsystems); Karl Schultz (IBM); Jeff Stevenson (Hewlett-Packard Company); Paula Womack (Digital Equipment Corporation)
Multi-Buffering Extension
Eng-Shien Wu (IBM); John Marks (Hewlett-Packard Company); Ian Elliott (Hewlett-Packard Company)

X server
Milind Pansare (SunSoft), pixmap privates; Peter Daifuku (SGI), layered window support; David Lister (Adobe Systems Incorporated), callback manager; Ken Whaley (Kubota Pacific), thin line pixelization; Joel McCormack (Digital Equipment Corporation), 64-bit mfb and cfb; Rob Lembree (Digital Equipment Corporation), 64-bit mfb and cfb; Davor Matic (MIT), xnest ddx; Nathan Meyers (Hewlett-Packard Company), font support; Jordan Brown (Quarterdeck Office Systems), -config option; Michael Brenner (Apple Computer), macII ddx; Thomas Roell, svga ddx

Multi-Threaded X Server
John A. Smith (while at Data General), team leader; H. Chiba (Omron), ddx; Akeio Harada (Omron), ddx; Mike Haynes (Data General), dix; Hidenobu Kanaoka (Omron), ddx; Paul Layne (Data General), dix and ddx; Takayuki Miyake (Omron), ddx; Keith Packard (Network Computing Devices), design; Richard Potts (Data General), dix; Sid Manning (IBM), integration with core server; Rob Chesler (Absolputer), integration with core server

xdm modular loadable greeter
Peter Derr (Digital Equipment Corporation)

x11perf
Joel McCormack (Digital Equipment Corporation); Graeme Gill (Labtam Australia); Mark Martin (CETIA)

config
Stuart R. Anderson (AT&T Global Information Solutions); David Brooks (Open Software Foundation); Kendall Collett (Motorola); John Freeman (Cray); John Freitas (Digital Equipment Corporation); Patrick E. Kane (Motorola); Mark Kilgard (Silicon Graphics); Akira Kon (NEC); Masahiko Narita (Fujitsu); Paul Shearer (Sequent); Mark Snitily (SGCS)

XFree86 port
Stuart R. Anderson (AT&T Global Information Solutions); Doug Anson; Gertjan Akkerman; Mike Bernson; David Dawes; Marc Evans; Pascal Haible; Matthieu Herbb; Dirk Hohndel; David Holland; Alan Hourihane; Jeffrey Hsu; Glenn Lai; Ted Lemon; Rich Murphey; Hans Nasten; Mark Snitily; Randy Terbush; Jon Tombs; Kees Verstoep; Paul Vixie; Mark Weaver; David Wexelblat; Philip Wheatley; Thomas Wolfram; Orest Zborowski
/fonts
Under xc/fonts/, the misc/ directory contains a family of fixed-width fonts from Dale Schumacher, several Kana fonts from Sony Corporation, two Hangul fonts from Daewoo Electronics, two Hebrew fonts from Joseph Friedman, two cursor fonts from Digital Equipment Corporation, and cursor and glyph fonts from Sun Microsystems. The Speedo directory contains outline fonts contributed by Bitstream, Inc. The 75dpi and 100dpi directories contain bitmap fonts contributed by Adobe Systems, Inc., Digital Equipment Corporation, Bitstream, Inc., Bigelow and Holmes, and Sun Microsystems, Inc.

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