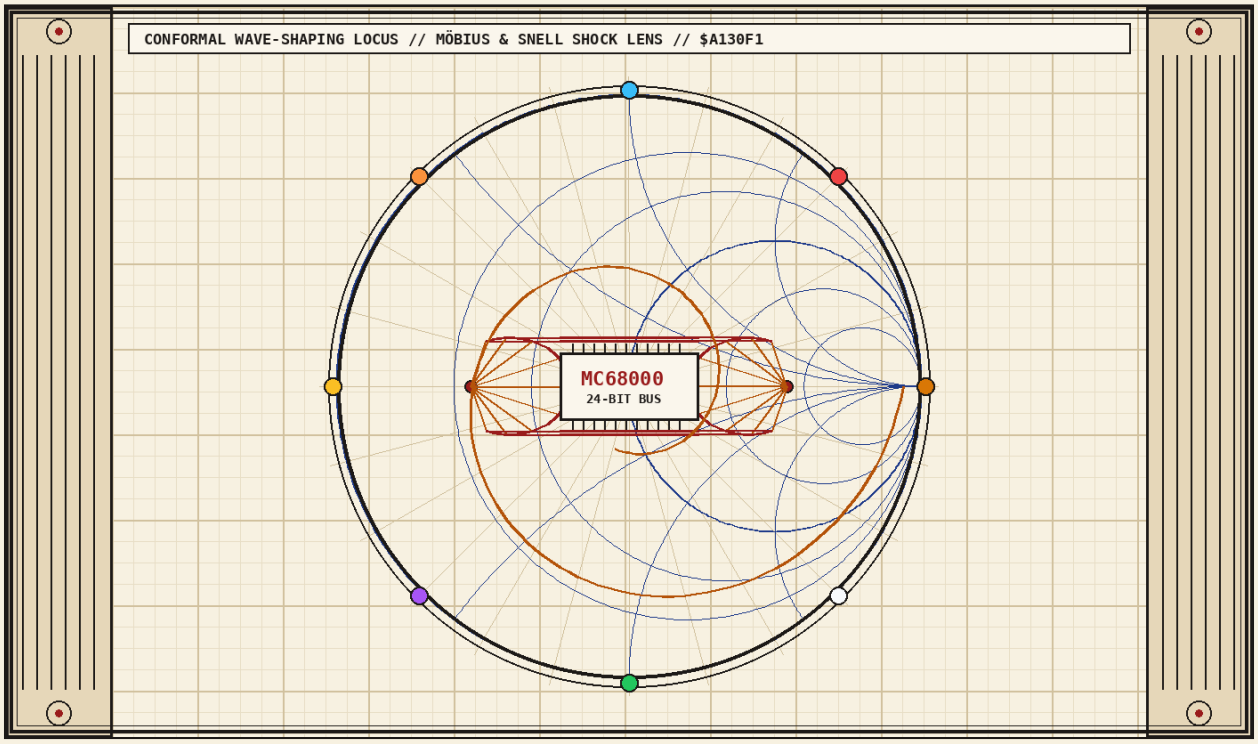
TECHNICAL MANUAL & DIRECTOR'S CUT LIBRETTO // REF: $A130F1 // 1983–2026

M68K: FREE THE SOFTWARE

THE 40-MEGABIT COPYLEFT CONCEPT SOUNDTRACK • COMPANION BOOK & PRINT ARCHIVE



A Five-Act Heavy Metal, Neoclassical & Hip-Hop Concept Opera Chronicling Motorola 68000 Disassembly, Cold War Conformal Wave-Shaping Engineering, and the Copyleft Liberation of Machine Code.

Dedicated in memory of Mircea Kitsune — longtime free-software contributor, open-source worldbuilder, and defender of software freedom.

CC0 1.0 UNIVERSAL PUBLIC DOMAIN DEDICATION • MASTERED ON DEVUAN GNU/LINUX • 44.1 kHz / 16-BIT RED BOOK PCM

SECTION I // PROLOGUE: UNLOCKING $A130F1

In the late 1970s and early 1980s, two monumental engineering traditions converged on the same drafting tables: Cold War aerospace/nuclear mathematical modeling and the birth of the 16/32-bit **Motorola MC68000** microprocessor. With its 24-bit linear address bus, orthogonal register architecture (`D0–D7`, `A0–A7`), and clean big-endian instruction encoding, the 68000 turned raw silicon into an open canvas for systems programmers, demo-scene pioneers, and hardware hackers.

M68K: Free the Software transforms the act of static disassembly—tracing opcode bytes through ROM banks, defeating hardware lockouts at register `$A130F1`, and restoring source-level transparency—into a 35-track, 148-minute musical odyssey spanning eight distinct visual and sonic eras.

SECTION II // CONFORMAL WAVE-SHAPING & SMITH CHART MATHEMATICS

The cover schematics accompanying the physical editions unite two pillars of Cold War graphical engineering—**conformal RF impedance mapping** and **hydrodynamic shock-wave refraction**—drawn on dual-pitch 2.5 mm / 10 mm engineering drafting paper:

1. Möbius Conformal Impedance Mapping (Smith Chart): Maps normalized complex impedance `z = r + jx` onto the unit reflection plane via a bilinear Möbius transformation, preserving 90° orthogonal intersections between constant-resistance tangent circles and constant-reactance arcs:

$$\Gamma = (z - 1) / (z + 1) \quad | \quad \text{Center}_r = (r / (r + 1), 0), \ \text{Radius}_r = 1 / (r + 1)$$

2. Two-Point Swan-Type Refractive Shock-Wave Lens: Converts diverging detonation rays from symmetric point foci into a planar converging shock front across a curved fast/slow explosive interface governed by Snell's shock-refraction law and a logarithmic conformal phase spiral:

$$\sin(\theta_1) / D_{fast} = \sin(\theta_2) / D_{slow} \quad | \quad r(\theta) = r_0 \cdot \exp(-k\theta)$$

SECTION III // PHYSICAL & ARCHIVAL EDITION MATRIX

Edition	Format & Case Spec	Tracks	Runtime	Drafting Palette
Abridged Single-Disc `Abridged_One_CD`	1× Red Book CD-R 10.4 mm Standard Jewel Case	18 Tracks (All 5 Acts + Tribute)	**79:35**	Warm 1983 Vellum Parchment & Crimson
Alternate & Companion `Alt_One_CD`	1× Red Book CD-R 10.4 mm Standard Jewel Case	20 Tracks (Zero-Overlap Takes)	**78:09**	Cool Celadon Engineering Vellum & Violet
Complete 3-CD Box Set `Complete_Multi_CD`	3× Red Book CD-Rs 24 mm Multi-CD Fatbox	35 Tracks (Discs 01, 02 & 03)	**148:22** (73:28 / 41:08 / 33:46)	Slate-Steel & Grumman Cobalt Blueprint

SECTION IV // LIBRETTO: THE EIGHT SONIC & VISUAL ERAS

ERA I · BLUE STREETS & HIP-HOP PROLOGUE

1983–1994 · East/West Coast Sub-Bass Manifesto

Opens at hardware unlock register $A130F1 ('Unlock the Gate'), setting the narrative premise: closed proprietary ROM vaults lock away the human craft of 68000 machine code. Boom-bap cadence and Tupac/Ice Cube-inspired verses frame disassembly as digital civil rights.

ERA II · CRIMSON NWOBHM & BRITISH STEEL

1980–1986 · Iron Maiden & Judas Priest Twin-Lead Gallop

Twin harmonized guitars and soaring operatic tenors ('Free the Software', 'Hell Patrol for Freedom') storm the gatekeepers' fortress, turning register dumps, opcode tables, and copyleft decrees into stadium heavy-metal anthems.

ERA III · 1970s FANTASY PARCHMENT EDITION

1975–1979 · Analog Tape Saturation & Vellum Manuscripts

Warm tape saturation and Tolkien-esque prog-metal storytelling cast the 68000 Programmer's Reference Manual as an ancient illuminated scroll passed down through hacker halls.

ERA IV · ENLIGHTENMENT PRINCE & YNGWIE ROSE

1984 · Neoclassical Harmonic Minor & Baroque Counterpoint

Sweep-picked arpeggios and harpsichord-bright lead tones ('Copyleft Dawn') celebrate pure algorithmic beauty—where mathematical symmetry liberates the machine from proprietary darkness.

ERA V · GREEN-ACID DETHKLOK FURNACE

Act III Pivot · Brutal Industrial Melodic Death Metal

Down-tuned tremolo riffs and relentless double-kick fury ('DISASSEMBLE') melt down obfuscated binaries in a green-acid phosphor furnace, stripping every encrypted header down to bare mnemonics.

ERA VI · PURPLE POP-FUNK & MIRCEA TRIBUTE

Act IV Climax · Smooth Disassembler & 00:05 Silence

Razor-sharp rhythmic groove ('Smooth Disassembler') glides through memory maps before stopping dead for Track 29 ('Silence' — 00:05) in solemn memory of longtime free-software contributor Mircea Kitsune.

ERA VII · GOLDEN DIO OUBLIETTE

Act V Bonus Suite · 1983 Heavy Metal & Dungeon Mysticism

Dark, doom-laden riffs ('When Born in the Dark', 'Remember the Fire 1983') echo from the subterranean oubliette, honoring the 1983 hacker underground that kept the flame alive.

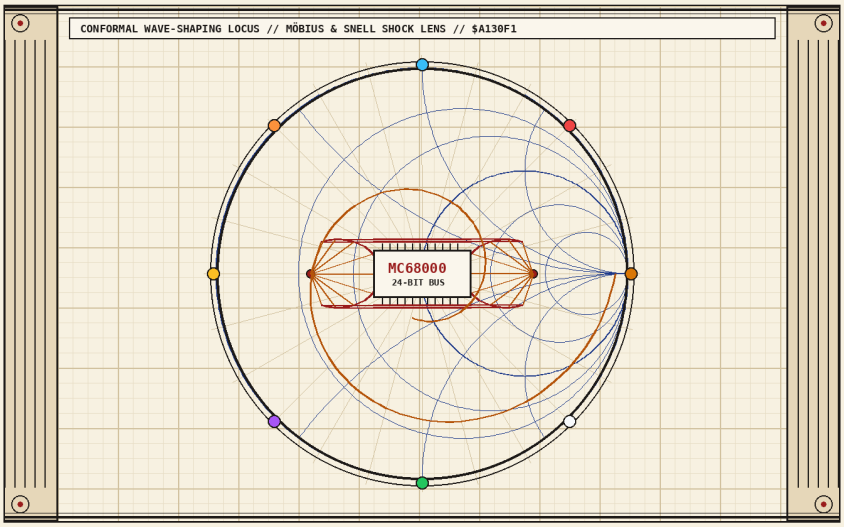
ERA VIII · 24-BIT APOCALYPSE DAWN

Finale · Thermonuclear Re-Entry & 'The Software Is Free'

Cold War conformal shock-lens telemetry meets blazing 1986 speed metal ('M68K Dawn (The Software Is Free)'), closing on a solitary clean arpeggio as the 24-bit bus illuminates the sky.

CUT-OUT CD JEWEL-CASE BOOKLET #1 • ABRIDGED SINGLE-DISC EDITION (120 MM × 120 MM PANELS • FOLD OR BACK-TO-BACK)

CONFORMAL WAVE-SHAPING LOCUS // $A130F1 UNLOCK GATE



M68K: FREE THE SOFTWARE

THE 40-MEGABIT COPYLEFT CONCEPT SOUNDTRACK

ABRIDGED SINGLE-DISC EDITION • 79:35 • 18 TRACKS

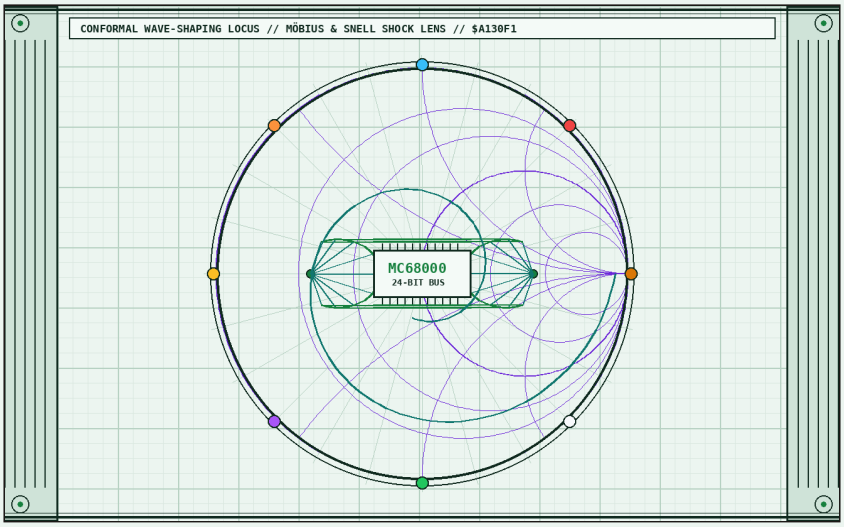
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ABRIDGED SINGLE-DISC EDITION — COMPLETE TRACKLIST (79:35)

01	Unlock the Gate (Opening Manifesto)	02:56
02	ASM For Free (Take 2 - Ice Cube Style)	03:00
03	Free the Software (Iron Maiden Style)	05:00
04	Hell Patrol for Freedom (Judas Priest Alt)	05:22
05	Free the Software (70s Parchment Edition)	06:24
06	Free the Software (AX-6 Tupac Style - Alt)	02:50
07	M68K Under Blood Red Skies	04:13
08	Copyleft Dawn (Yngwie Malmsteen Style)	04:38
09	DISASSEMBLE (Dethklok Style)	04:40
10	DISASSEMBLE (Dethklok Style - Alt)	04:37
11	Break the Vault (Iron Maiden / Parchment)	04:55
12	Blood Red Skies (Crimson Mix)	04:58
13	Hell Patrol for Copyleft (DragonForce Mix)	04:33
14	Smooth Disassembler (Michael Jackson Alt)	04:19
15	Silence (Mircea Kitsune Tribute Interlude)	00:05
16	When Born in the Dark (Dio Style)	05:10
17	Remember the Fire 1983 (Dio Style - Alt)	07:22
18	M68K Dawn (The Software Is Free) (JP '86)	04:31

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CONFORMAL WAVE-SHAPING LOCUS // $A130F1 UNLOCK GATE



M68K: FREE THE SOFTWARE

THE 40-MEGABIT COPYLEFT CONCEPT SOUNDTRACK

ALTERNATE & COMPANION DISC • 78:09 • 20 TRACKS

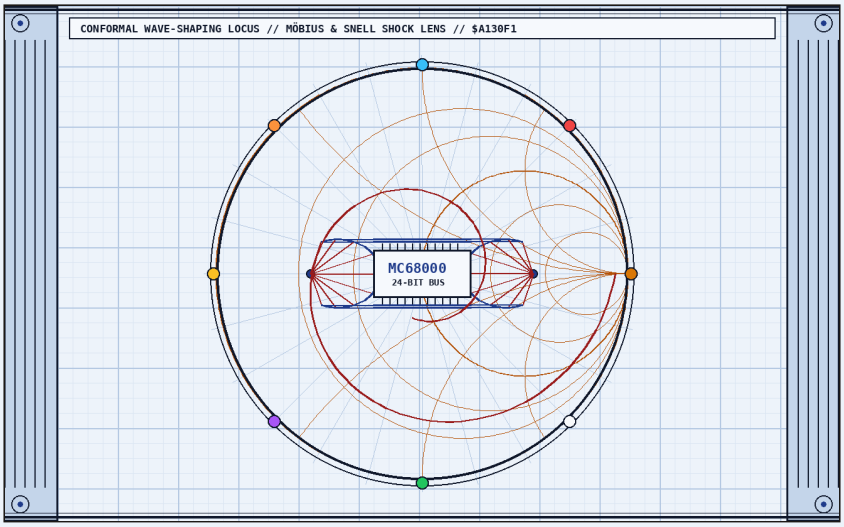
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ALTERNATE & COMPANION DISC — COMPLETE TRACKLIST (78:09)

01	Free the Source	02:19
02	Free the Source (M-Style)	02:22
03	Unlock the Gate (Alt)	02:51
04	ASM For Free (Take 1)	03:00
05	ASM For Free (Take 3)	03:00
06	ASM For Free (Main)	02:59
07	Free the Software (Iron Maiden Alt)	05:09
08	Hell Patrol for Freedom (Judas Priest)	05:56
09	Free the Software (AX-6 Tupac Style)	03:00
10	M68K Under Blood Red Skies (Alt)	04:19
11	Copyleft Dawn (Yngwie Style - Alt)	04:09
12	DISASSEMBLE (Dethklok Style)	04:40
13	DISASSEMBLE (Dethklok Style - Alt)	04:37
14	Break the Vault (Parchment Alt)	04:20
15	Hell Patrol for Copyleft (Nu-Metal Mix)	04:15
16	Smooth Disassembler (Michael Jackson)	04:25
17	Silence (Mircea Kitsune Tribute Interlude)	00:05
18	When Born in the Dark (Dio Style - Alt)	04:55
19	Remember the Fire 1983 (Dio Style)	06:59
20	M68K Dawn (The Software Is Free) [Pt I]	04:49

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CONFORMAL WAVE-SHAPING LOCUS // $A130F1 UNLOCK GATE



M68K: FREE THE SOFTWARE

THE 40-MEGABIT COPYLEFT CONCEPT SOUNDTRACK

COMPLETE 3-CD BOX SET • 148:22 • 35 TRACKS

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COMPLETE 3-CD BOX SET — ALL 35 TRACKS (148:22)

D1-01	Unlock the Gate (Opening Manifesto)	02:56
D1-02	Free the Source	02:19
D1-03	Free the Source (M-Style)	02:22
D1-04	Unlock the Gate (Alt)	02:51
D1-05	ASM For Free (Take 1)	03:00
D1-06	ASM For Free (Take 2 - Ice Cube Style)	03:00
D1-07	ASM For Free (Take 3)	03:00
D1-08	ASM For Free (Main)	02:59
D1-09	Free the Software (Iron Maiden Style)	05:00
D1-10	Free the Software (Iron Maiden Style - Alt)	05:09
D1-11	Hell Patrol for Freedom (Judas Priest Style)	05:56
D1-12	Hell Patrol for Freedom (Judas Priest Alt)	05:22
D1-13	Free the Software (70s Parchment Edition)	06:24
D1-14	Free the Software (AX-6 Tupac Style)	03:00
D1-15	Free the Software (AX-6 Tupac Style - Alt)	02:50
D1-16	M68K Under Blood Red Skies	04:13
D1-17	M68K Under Blood Red Skies (Alt)	04:19
D1-18	Copyleft Dawn (Yngwie Malmsteen Style)	04:38
D1-19	Copyleft Dawn (Yngwie Style - Alt)	04:09
D2-20	DISASSEMBLE (Dethklok Style)	04:40
D2-21	DISASSEMBLE (Dethklok Style - Alt)	04:37
D2-22	Break the Vault (Iron Maiden / Parchment)	04:55
D2-23	Break the Vault (Parchment Alt)	04:20
D2-24	Blood Red Skies (Crimson Mix)	04:58
D2-25	Hell Patrol for Copyleft (Nu-Metal Mix)	04:15
D2-26	Hell Patrol for Copyleft (DragonForce Mix)	04:33
D2-27	Smooth Disassembler (Michael Jackson Style)	04:25
D2-28	Smooth Disassembler (Michael Jackson Alt)	04:19
D2-29	Silence (Mircea Kitsune Tribute Interlude)	00:05
D3-30	When Born in the Dark (Dio Style) [Bonus]	05:10
D3-31	When Born in the Dark (Dio Alt) [Bonus]	04:55
D3-32	Remember the Fire 1983 (Dio Style) [Bonus]	06:59
D3-33	Remember the Fire 1983 (Dio Alt) [Bonus]	07:22
D3-34	M68K Dawn (The Software Is Free) [Pt I]	04:49
D3-35	M68K Dawn (The Software Is Free) [Bonus]	04:31

Disc 01 (73:28) • Disc 02 (41:08) • Disc 03 (33:46) • Dedicated in memory of Mircea Kitsune • CC0 1.0