

# **HSML\_Greek**

Matthias Henze Panokostas

<b>COLLABORATORS</b>
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# Chapter 1

## HSML\_Greek

### 1.1 Contents

HighSpeed MathLibs 44.50 beta 2 Άδβαάείτς ( 12.10.2002 ) άέα MC68881/82

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S H A R E W A R E

ΆέόάαũāÞ ΆάίέέÝò ðεçñïöïñßàð òuí HSMathLibs.

ΆέάέέÛ Άíññßοίάάά Άέάòß íá ÷ñçόέίτðíέÞòú òέð HSMathLibs;

ΆðάέòÞόάέò Óé áðάέòáßðάέ άέα òç ÷ñÞόç òuí HSMathLibs;

ΆάέάóÛóóάόç Ðùð èá ááέάóάóóðÞòú òέð HSMathLibs;

ΆðááέάóÛóóάόç Ðùð èá áðááέάóάóóðÞòú òέð HSMathLibs.

ΆíúóóÛ ÓóÛείάάά ΆíúóóÛ óóÛείάάά έάέ ðñíáεÞíάάά.

ÍÝάð áεäüóάέò Ðùð íá áíáάάείßóáðá.

Ðāñέίñέóίίß Ðāñέίñέóίίß òçð Ýέäüóçð áðßáάείτçð.

ΆάāñάóÞ Ðùð ìðñÞ íá áāāñάóÞ;

ΆέέάέÞíάάά ΆέέάέÞíάάά.

Έóóñßά Óýíòñç έóóñßά.

Οί ÌÝέεíí ÌáεεííóέέÛ ó÷ Ýάέα.

Άð÷áñέóóßàð Άð÷áñέóóÞ òíðð ... .

Άçíέíòñāüð Ðùð íá áðέέίέíúíÞóáðá ìá òíí äçíέíòñāü.

ΆðñāðÞñέí ΆðñāðÞñέí òuí ìäçäέÞí.

### 1.2 ΆέόάαũāÞ

ΆέόάαũāÞ: ~~~~~

Íé "HSMathLibs" áíðέέάέέóóίýí òέð áέάέέίèÞéåð "mathieedoubbas.library", "mathieedoubtrans.library", "mathieeesingtrans.library" έάέ "mathtrans.library" έάέ áέíñèÞííóí Þ áíðέέάέέóóίýí òέð áέάέέίèÞéåð "mathffp.library" έάέ "mathieeesingbas.library" ìá áέäüóάέò áāέóóóðíðíέçí Ýíáð áέα òíí MC68881/82. Ç áέñßááέα áßíάέ áíßóíð òççèÞ ìá òέð áñ÷έέÝò áέάέέίèÞéåð ðíð Ýñ÷ííóάέ ìá òí Ami-gaOS 3.x (ìáñέέÝò èáέóíòñāßàð áßíάέ áέüìá ðέü áέñéááßáð). Íé "HSMathLibs" áßíάέ āñāüÝíáð óá assembler áέα òçí ìÝáέóóç äðíáðÞ áðέóÛ÷óíóç.

Background: Ίε άεάεέιεΨεάδ οίτo AmigaOS 3.x έάέ οίτo FMath406 (Fast Math Libraries v40.6 άδύ οίτi Martin Berndt) άβίάέ άνεάδÜ άñάδ (-ñçóείηδτείγί άίóεΥδ οίτo i MC68040 δñΥδάέ ίά άññάεΨάέ). Ί MC68060 άάί οδίóδçñβæάóάέ έάί. ρóέ άδτoÜóέóά ίά άίάδóγüò óέδ "HSMathLibs". ΆδάέαΨ i MC68881/82 άάί οδίóδçñβæάóάέ έάέÜ άδύ οί εάέóίτñάέεü έάέ δτείεβ ÷ñΨóóάδ æΨóçóάί ίέά Υέάίóç οίτo οδίóδçñβæάέ άóδü οί FPU, άδτoÜóέóά ίά έÜü ίέά Υέάίóç οüί HSMathlibs έάέ οίί MC68881/82.

### 1.3 ΆέάέέÜ Άíñβóίάóά

ΆέάέέÜ Άíñβóίάóά οüί "HSMathLibs": ~~~~~

- 1.) έάεΨò άβίάέ άñάñΥíάδ δεΨñùδ óά assembler, üέάδ ίε έάέóίτñάβáδ άβίάέ δτεγύ άñΨάíñάδ
- 2.) άέάέέΥδ άέäüóάέδ οüί "HSMathLibs" άέά MC68881/82, MC68040 έάέ MC68060
- 3.) δτεγύ δέί άñΨάíñάδ άδύ óέδ άέάέέιεΨεάδ οίτo AmigaOS 3.x έάέ οί FMath406 (Fast Math Libraries v40.6 άδύ οίί Martin Berndt); i MC68040 άβίάέ 21 άñçáíñüóáññìδ άδύ οί AmigaOS 3.x óέΥóί έάέ 10 άñçáíñüóáññìδ άδύ üóέ ίά οί FMath406
- 4.) ίε "HSMathLibs" äíöέáγíóί óóί DraCo
- 5.) ΔεΨñçδ οδίóδΨñέίç οüί δññáñáñüòüí "BlizKick", "LoadResident" έάέ "LoadModule".
- 6.) ίε "HSMathLibs" άάί άβίάέ άέñέáΥδ

### 1.4 ΆδάέóΨóάέδ

ΆδάέóΨóάέδ: ~~~~~

- Amiga Ψ DraCo - AmigaOS 2.0 (V37) Ψ έάέγóáññí - MC68881/82

Άί άέάέΥíáóá ίέÜ άδύ óέδ άδέέίáΥδ "mathffp.library" Ψ "mathieeesingbas.library" έάóÜ óçί άάέάóÜóóάóç, ίδññάβ ίά ÷ñάέάóóάβóá Υíά άδύ óά áεüείτöέá δññáñüííáóá:

- BlizKick (óóί Internet óδç äέáγέδíóç "http://www.iki.fi/sintonen/sw.html" Ψ óóί Aminet óóί "util/boot/") άί άέάέΥíáóá óçί άδέέίáΨ "BlizKick" Ψ "LoadResident" - LoadModule (óóί Aminet óóί "util/boot/") άί άέάέΥíáóá óçί άδέέίáΨ "LoadModule"

### 1.5 ΆäέáóÜóóάóç

ΆäέáóÜóóάóç: ~~~~~

Ç ääέáóÜóóάóç οüί "HSMathLibs" ÷ñçóείηδτείεάβ οίί Installer οίτo óóóδΨíáóíδ έάέ άβίάέ δτεγύ άδεΨ. ΊáέέίΨóóá οί δññáñáñüá ääέáóÜóóάóçδ "Install\_xxx" (üδíð xxx áÜæáóá óçί äεΨóóá δíð δññíóéÜóá) έάέ áεüείτöεΨóóá óά άΨíáóá δíð δáñέáñüóííóáέ ääε.

ÓÇÍÄÉÜÓÇ!!! Άί Υ ÷áðá Ψäç ίέά δάέέüδáñç, δεΨñçδ Υέάίóç οüί "HSMathLibs", δíð áβóá άβ ÷á ääέáóóóáέάβ ÷áέñíεβίçóá áβóá άβ ÷á δññíδíτεέçεάβ ÷áέñíεβίçóá ίáóÜ, ίδññάβ óά ίáñέέΥδ δáñέδδΨóáέδ ίά άíóέíáóüδβóáóá δññáεΨíáóá. ÓóíáδΨò óáδ óóíáíτöέáγíτöíá ίά άίáέñΥóáóá óð ÷üí δññíδíτεέΨóáέδ Ψ ίά áóáέñΥóáóá óáέάβüδ óέδ "HSMathLibs" ÷áέñíεβίçóá, δñέί ääέáóóóδΨóáóá áóδΨ óç ίΥά Υέάίóç.

ΔñΨóá äíóáίβæáóáέ ç óáεβáá έáέüóíñβóίάóíδ έάέ ç óáεβáá άδέέίáΨ. ΊáóÜ ç ääέáóÜóóάóç óóíá ÷βæάέ üδùδ δáñάέÜóü.

1.0.0 'ΔáñáέάεΨ άδέέΥíáóá óγóί ääέáóÜóóάóçδ:' ΆäΨ ίδññάβóá ίά άδέέΥíáóá οίί óγóί ääέáóÜóóάóçδ οüί "HSMathLibs". Ίδññάβóá ίά άδέέΥíáóá άβóá 'ΔεΨñçδ ääέáóÜóóάóç' (άíóέέáβíáñ 1.1.0) άβóá 'ΆέέááΨ óçδ ääέáóÜóóάóç' (άíóέέáβíáñ 1.2.0).

1.1.0 'δεΨñçδ ääέáóÜóóάóç' Ίá áóδΨ óçί άδέέίáΨ äέáέΥááóá οίί έáíííέéü δññüδí ääέáóÜóóάóçδ, í τδíβíð ίδññάβ ίά ÷ñçóείηδτείεçεάβ áέá δñΨóç ääέáóÜóóάóç Ψ áέá άίçíΥñóç. ¼έá óá áδáñάβóçóá άñ ÷áβá άíóέáñÜóííóáέ έάέ üέáδ ίε áδáñάβóçóáδ áέέááΥδ (δ.÷. óδç "startup-sequence") äβíííóáέ. Άί Ψäç Υ ÷áðá óέδ "HSMathLibs" V.44.50 beta 8 Ψ ίáááέγóáñç ääέáóóóçί Υíáδ, í óγóíδ άίçíΥñóçδ άíáñáíδτείεáβóáέ áóóüíáóá. Óá áóδΨ óç δáñβδδóç óá άíóέέáβíáñ 3.0.0 íΥ ÷ñέ 4.2.5 δáñάέáβδííóáέ. Ί δññüδíð áéüñεüçδ Ψ öíñδΨíáóíδ οüί "mathffp.library" έάέ "mathieeesingbas.library" ίδññάβ óüóá ίá áέέá ÷έáβ üüí ίáóÜ οί óΥέíð óçδ ääέáóÜóóάóçδ ίá óçί άδέέίáΨ 'ΆέέááΨ óçδ ääέáóÜóóάóç' (άíóέέáβíáñ 1.2.0). Άί ääέáέóóÜóá óέδ "HSMathLibs" áέá δñΨóç öíñÜ, Ψ Υ ÷áðá ίέá Üέεç Υέάίóç ääέáóóóçίΥίç áέóüδ άδü áóδΨí δíð άíáóΥñáóáέ ääε, δñΥδάέ ίά ÷ñçóείηδτείεΨóáóá áóδΨ óçί άδέέίáΨ. Ç ääέáóÜóóάóç óóíá ÷βæáóáέ óóί άíóέέáβíáñ 2.0.0.

1.2.0 'áεεάαP οçð ãεεάóÜóóáόçð' Ìá áóðP οççí áðεεíτáP ìðññáβóá íá áεεÜíáóá οçç ìÝετáí áεúñεùόçð P οññðñíáóñð οúí "mathffp.library" εάε "mathieeesingbas.library". ÈãðññáñÝð ðεçñññññññ ð÷÷÷÷÷÷÷ ìá οέð ìáεúáññð áεúñεùόçð P οññðñíáóñð ãñβóεíñóáε óðá áíóεεáβñíáí 3.0.0 ìÝ÷ñε 4.2.5. ÁóðP ç áðεεíτáP ìðññáβ ìá ÷ñçóεíñðñεçεáβ ìúñí áí ç ãáεáóáóóççíÝç Ýεáññόç οúí "HSMathLibs" áβíáε βáεá ìá áóðPñ ðñ εá ãáεáóáóóáεáβ.

2.0.0 'ÈáóÜ οçç áεÜñεáεá οçç ãáεáóÜóóáόçð οúí "HSMathLibs", ìáñεεÜ áñ÷áβá εá áεεá÷εíÝí P εá áεááñáóññí. Èá εÝεáóá ìá áβíáε áíóβáñáóññ ðññ áñ÷áβññ áóðPñ; Ááð ìðññáβóá ìá ìñβóáóá áí εÝεáóá ìá áçññεíññáçεáβ áíóβáñáóññ áóóáεáβáð P ù÷ε. ÷÷÷÷÷÷÷ ðéð áðεεíτáÝð 'íáε' (áíóεεáβñíáñ 2.1.0) εάε 'ù÷ε' (áíóεεáβñíáñ 2.2.0).

2.1.0 'íáε' Áí áεáεÝíáóá áóðP οççí áðεεíτáP, ç ìðññáβ ðññóáβñíáóáε, οúòá ùεá óá áñ÷áβá ðññ εá áεεá÷εíÝí P áðáíááñáóññí ýáóÜ οççí ãáεáóÜóóáόçç εá οúεíÝí. Áóðñ ðñ áíóβáñáóññ ìðññáβ ìá áðáíáóáññáβ (áðáíááñáóáβ) ÷ñçóεíñðñεíññáóð ðñ ðññáñáñ ãáεáóÜóóáόçç. Áí Ý÷÷÷÷ OS3.9 εάε ðéð math áεáεéíεPεáð áðñ ðñ BoeingBag 1 P BoeingBag 2 ãáεáóáóóççíÝíáó, οúòá εá ðñÝðáε ìá áçññεíññáPóáóá Ýíá áíóβáñáóññ (ááβóá ÁðááεáóÜóóáόçç áíóεεáβñíáñ 3.0.0). Áí áεáεÝíáóá ðññ óýðñ 'áεεáαP οççð ãáεáóÜóóáόççð' (áíóεεÝéíáñ 1.2.0) áεáóβ ìεá ðññáεáñññβçόçç εáóÜ οççí ðññçáññññáç ãáεáóÜóóáόçç óáð ðñ áβðá, P áεáóβ ððPñ÷áí ðññáεPñáóá ìá ðéð ðñÝ÷÷÷÷÷÷÷ ðññεíβóáεð, οúòá ááí εá ðñÝðáε ìá áçññεíññáPóáóá áíóβáñáóññ áóóáεáβáð.

2.1.1 'Áçññεíññáβá áíóεáñÜóññ. ÐáñáεáεP áðεεÝíáóá ìññáá áβóεíñ P εáóÜεíτáí. ÷áð ððñεáóÜεíτáñ ìá ðñ ìññá "HSML-BAK" εá áçññεíññáçεáβ. Ááð ìðññáβóá ìá áðεεÝíáóá οçç ìññáá áβóεíñ P εáóÜεíτáí ùðññ ì εáóÜεíτáñ áíóεáñÜóññ "HSML-BAK" ððÜñ÷áε P εá áçññεíññáçεáβ. Áí ððÜñ÷áε Páç Ýíá ðáεεúóáññ áíóβáñáóññ áεáβ, εá áεááñáóáβ. Ç ðññáðεεáñÝíç áεááññP áβíáε áβóá "LIBS:" áβóá ç áεááññP ðññ Ý÷÷áε ìñεóóáβ óçç ìáóááεçóP ENV "HSML-bakdir". Ç ãáεáóÜóóáόçç óññá÷βáεáε óññ áíóεεáβñíáñ 3.0.0, P óññ óýðñ áíçñÝññóçð óññ áíóεεáβñíáñ 5.0.0.

2.2.0 'ù÷ε' Áí áεáεÝíáóá áóðP οççí áðεεíτáP, ðññ ááí ðññóáβñíáóáε, οúòá ááí εá áçññεíññáçεáβ áíóβáñáóññ áóóáεáβáð. Óá áóðP οçç ðáñβððóóçç, ðñ ðññáñáñ ãáεáóÜóóáόçç ìðññáβ ìá ÷ñçóεíñðñεçεáβ ìúñí óççí áðεεíτáP "Áóáβñáόçç". Óññ óýðñ áíçñÝññóçð ç ãáεáóÜóóáόçç óññá÷βáεáε óññ áíóεεáβñíáñ 5.0.0.

3.0.0 'ÈÝεáóá óá "mathffp-Patch", "Load-mathffp" + "mathffp.library" P ìúñí οççí "mathffp.library" ìá ãáεáóáóóáεíÝí; Ááð ìðññáβóá ìá áðεεÝíáóá οççí ìÝετáí áεúñεùόçð P οññðñíáóñð οççð "mathffp.library". Ìðññáβóá ìá ÷ñçóεíñðñεPóáóá áβóá ðññ "mathffp-Patch" (áíóεεáβñíáñ 3.1.0), "Load-mathffp" + "mathffp.library" (áíóεεáβñíáñ 3.2.0) áβóá οççí "mathffp.library" (áíóεεáβñíáñ 3.3.0).

3.1.0 "mathffp-Patch" Áí áεáεÝíáóá áóðP οççí áðεεíτáP, ç áíóñεP "mathffp-Patch" áíóεáñÜóáóáε óññ εáóÜεíτáí C:, εάε ìεá áááñáóP áçññεíññáβóáε óññ "user-startup" P "draco-startup". Ç áíóñεP "mathffp-Patch" áεíñεPñíáε οççí ROM-based "mathffp.library", áíóεεáεεóðññáóð ùεáð ðéð óññáññPóáεð ìá ááεóεúñÝíáð áεáññóáεð. ÌÝ÷ñε ðññá ááí ððPñ÷á ðññÝ εáñÝíá ðññáεçñíá ìá áóðP οççí áðεεíτáP óá εáñεÜ AMIGA P DraCo. Áí ááí áβóóá ðñññ Ýíðáεñññ ìá ðñ óýðçññÜ óáð, P áðεÜ εÝεáóá ìá áβóóá óβáñññε, εá ðñÝðáε ìá áεáεÝíáóá áóðP οççí áðεεíτáP. Ç ãáεáóÜóóáόçç óññá÷βáεáε óññ áíóεεáβñíáñ 4.0.0.

3.2.0 "Load-mathffp" + "mathffp.library" Áí áεáεÝíáóá áóðP οççí áðεεíτáP, ç áíóñεP "Load-mathffp" áíóεáñÜóáóáε óññ εáóÜεíτáí C:, ç "mathffp.library" áíóεáñÜóáóáε óññ εáóÜεíτáí LIBS:, εάε ìεá áááñáóP áçññεíññáβóáε óççí "startup-sequence". Ç áíóñεP "Load-mathffp" οññðñíáε εάε áññááε οççí "mathffp.library". ÓðPñ÷á ìúñí Ýíá ðññáεçñíá ìá áóðP οççí áðεεíτáP ìÝ÷ñε óéáñPð, óá ìεá Amiga 500 ìá Ýíá Blizzard 2040ERC 68040/40 Turbo card. Ç ãáεáóÜóóáόçç óññá÷βáεáε óññ áíóεεáβñíáñ 4.0.0.

3.3.0 "mathffp.library" Áí áεáεÝíáóá áóðP οççí áðεεíτáP, ìεá áεáεεP Ýεáññόççð "mathffp.library" áíóεáñÜóáóáε óññ εáóÜεíτáí LIBS:. ÁóðP ç Ýεáññόççð "mathffp.library" ìðññáβ ìá οññóεáβ óçç ìPñç εάε ìá áβíáε resident P reset-proof ÷ñçóεíñðñεPñáóð ðñ "BlizKick", "LoadModule", "LoadResident" P Ýíá ðáññññññ ðññáñáñá (áóóÜ óá ðññáñÜññáóá εá ðñÝðáε ìá Ý÷÷÷÷÷÷÷ ãáεáóáóóáεáβ ðññεí οççí ãáεáóÜóóáόçç οúí HSMathLibs). Ìε áεεááÝð óççí "startup-sequence" ðññ ÷ñáεÜεíññáε áεá ðéð "HSMathLibs" áβñññóáε áóóññáóá. ÁεεÜ, áóññ ðññáñÜññáóá óáí ðññ "BlizKick", "LoadModule", "LoadResident" εðε. ð÷÷ááñ ðÜññá ðññÝðáε ìá ãáεáóáóóáεíÝí ÷áεñññεβñçóá, εá ðñÝðáε ìá ÷ñçóεíñðñεPóáóá οççí áðεεíτáP áóðP ìúñí áí áβóóá áññεáεñÝññ ìá áóðñ.

3.3.1 'Ðñεíñ ðññáñáñá ìá εÝεáóá ìá ÷ñçóεíñðñεçεáβ áεá ðññ ðññóðñá οççð "mathffp.library"; Ááð ìðññáβóá ìá áðεεÝíáóá ðñεúñ ðññáñáñá εá ÷ñçóεíñðñεáβóáε áεá ðññ ðññóðñá οççð "mathffp.library". Ìðññáβóá ìá áðεεÝíáóá óá "BlizKick" (áíóεεáβñíáñ 3.3.2.), "LoadModule" (áíóεεáβñíáñ 3.3.3.), "LoadResident" (áíóεεáβñíáñ 3.3.4) P "Üεεñ" (áíóεεáβñíáñ 3.3.5).

3.3.2 "BlizKick" Áí áεáεÝíáóá áóðP οççí áðεεíτáP, ðñ ðññáñáñá "BlizKick" εá ÷ñçóεíñðñεçεáβ áεá ðññ ðññóðñá οççð "mathffp.library". ÁóðP ç áðεεíτáP Ý÷÷áε ìúçñá áí ÷ñçóεíñðñεáβóá Páç ðññ "BlizKick" (ð.÷.÷. áεáóβ ÷ñçóεíñðñεáβóá ðññ "EXEC V44", P áεá ìá Ý÷÷÷÷÷÷÷ áεáóññáóéεP Ýεáññόçç Kickstart). Áí ðññ "BlizKick" áβíáε Páç ãáεáóáóóççíÝññ, ùεáð ìε áðáñáβóççóáð áεεááÝð óçç "startup-sequence" áβñññóáε áóóññáóá. ÁóðP ç áðεεíτáP ðññóáβñíáóáε óñññð ÷ññPóáð ðññ ÷ñçóεíñðñεíÝí Páç ðññ "BlizKick". Áεá ìá ìðññáβóá ìá ãáεáóáóóPóáóá ðéð "HSMathLibs" áóóññáóá, ðñÝðáε ìá Ý÷÷÷÷÷÷÷ Páç ðññ "BlizKick" (εáññόçç 1.24 beta 6 P ìáááεýóáñç) ãáεáóáóóççíÝññ. Ç ãáεáóÜóóáόçç óññá÷βáεáε óññ áíóεεáβñíáñ 4.0.0.

3.3.3 "LoadModule" Áí áεáεÝíáóá áóðP οççí áðεεíτáP, ðñ ðññáñáñá "LoadModule" εá ÷ñçóεíñðñεçεáβ áεá ðññ ðññóðñá οççð "mathffp.library". ÷ñçóεíñðñεPóáóá áóóññ áí εÝεáóá ìúñí ìáñεεÜ modules, ù÷ε οççí ðεPñáð ROM image, ìá οññóεáβ óçç ìPñç ùð reset-proof. Áí ðññ "LoadModule" áβíáε Páç ãáεáóáóóççíÝññ, ùεáð ìε áðáñáβóççóáð áεεááÝð óçç "startup-sequence" εá áβñññ

αδοϋιαοα. ΑδοP ς αδεειαP δνιοαβιαοαε οοιοδ ÷ nPooao διο Y ÷ ioi Paç oi "LoadModule" P διο eYeiioi ia Y ÷ ioi iufi oaaeaneieiYia modules reset-proof. Aea ia idinaoaa ia aaaoaoaoPooaa oed "HSMathLibs" adouiaoa, dnydaa ia Y ÷ aoo Paç oi "LoadModule" (eaioc 40.7 P iaayooanc) aaaoaoaoçiyfi. Ç aaaoUooaoç ooiã ÷ Baaoae ooi afoeaaiafi 4.0.0.

3.3.4 "'LoadResident'" Aí aeaeYiaoa adop çyi adeeiaP, oi dnuanaia "LoadResident" ea ÷ nçoeiioieçaa aea oi ounoia ççd "mathffp.library". Ç adeeiaP adop Y ÷ ae iucia ai ÷ nçoeiioieçaa Paç oi "LoadResident" oai adYeoaoç oio "BlizKick". Aí oi "LoadResident" abiaa Paç aaaoaoaoçiyfi, ueao ie adanaoçooao aeaaYd ooc "startup-sequence" ea abioi adouiaoa. Aea ia idinaoaa ia aaaoaoaoPooaa oed "HSMathLibs" adouiaoa, dnydaa ia Y ÷ aoo Paç oi "BlizKick" (eaioc 1.24 beta 6 P iaayooanc) eae oi "LoadResident" (eaioc 1.0.1 P iaayooanc) aaaoaoaoçiyfi. Ç aaaoUooaoç ooiã ÷ Baaoae ooi afoeaaiafi 4.0.0.

3.3.5 'Üeer' Aí aeaeYiaoa adop çyi adeeiaP, ç "mathffp.library" adEU afoeanUooaoe ooi eaoUeiai LIBS:. EaiEU aeaaP aai abiaae ooc "startup-sequence". AdeeYioa adou iufi ai eYeaoo ia ÷ nçoeiioiePooaa çyi "mathffp.library" aeEU aai idinaoaa ia ÷ nçoeiioiePooaa oa dnuanaia "BlizKick", "LoadModule" eae "LoadResident" P ai ÷ nçoeiioieçaa Paç Yia Üeer dnuanaia aea adou oi oeiou. Oeaiooaoaa uoe iYnao de eUiaoa!

4.0.0 'EYeaoo oi "mathieeingbas-Patch" P çyi "mathieeingbas.library" ia aaaoaoaoaeiyi;' Aap idinaoaa ia adeeYiaoa çç iYeiai aeunouocd P oinoiaioçd ççd "mathieeingbas.library". Idinaoaa ia adeeYiaoa aboa oi "'mathieeingbas-Patch'" (afoeaaiafi 4.1.0) aboa çyi "'mathieeingbas.library'" (afoeaaiafi 4.2.0).

4.1.0 "'mathieeingbas-Patch'" Aí aeaeYiaoa adop çyi adeeiaP, ç afoieP "mathieeingbas-Patch" afoeanUooaoe ooi eaoUeiai C:, eae açieioaaabaae ia aaanaop ooi "user-startup" P "draco-startup". Ç afoieP "mathieeingbas-Patch" aeinepiaa çyi ROM-based "mathieeingbas.library", afoeaaeooPioad ueao oed oiafnoPooed ia aaeeouYiaa aeauoae. IY ÷ ne oPna aai odPn ÷ a dioY eaiYia dnuaeia ia adop çyi adeeiaP oa eaiEU AMIGA P DraCo. Aí aai aboa ouoi Ydaenie ia oi oyoocU oad, P adEU dnoeiUoa ia aboa obaioie, dnydaa ia aeaeYiaoa adop çyi adeeiaP. Ç aaaoUooaoç ooiã ÷ Baaoae ooi afoeaaiafi 5.0.0.

4.2.0 "'mathieeingbas.library'" Aí aeaeYiaoa adop çyi adeeiaP, ia aeaeEP Yeaoc ççd "mathieeingbas.library" afoeanUooae ooi eaoUeiai LIBS:. Adop ç Yeaoc ççd "mathieeingbas.library" idinaa ia oinoeaa ooc iPiç eae ia abiaa resident P reset-proof ÷ nçoeiioiePioad oi "BlizKick", "LoadModule", "LoadResident" P Yia dnuanaia (adU oa dnuanaia dnydaa ia Y ÷ ioi aaaoaoaoaeab dnei çyi aaaoUooaoç oufi HSMathLibs). Ie aeaaYd ooc "startup-sequence" dio ÷ naeUeioae aea oed "HSMathLibs" abioae adouiaoa. AeEU eaeP dnuanaia oai oi "BlizKick", "LoadModule", "LoadResident" ede. o ÷ aai dUioa dnydaa ia aaaoaoaoaeiyi ÷ aenieioa, ea dnydaa ia ÷ nçoeiioiePooaa çyi adeeiaP adop iufi ai aboa aieieiuYio ia adou. Aí aaeeoUoa oed "HSMathLibs" oa Yia DraCo P ieU A3000, aai dnydaa ia aeaeYiaoa çyi adeeiaP adop. O ÷ aai ueie ie ÷ nPooao oufi odocUoufi adopi ab ÷ ai oiaaU dnuanaia ia adop.

4.2.1 'Dieu dnuanaia eYeaoo ia ÷ nçoeiioieçaa aea oi ounoia ççd "mathieeingbas.library";' Aap idinaoaa ia adeeYiaoa dieu dnuanaia eYeaoo ia ÷ nçoeiioieçaa aea oi ounoia ççd "mathieeingbas.library". Idinaoaa ia adeeYiaoa oi "'BlizKick'" (afoeaaiafi 4.2.2.), "'LoadModule'" (afoeaaiafi 4.2.3.), "'LoadResident'" (afoeaaiafi 4.2.4) P 'Üeer' (afoeaaiafi 4.2.5).

4.2.2 "'BlizKick'" Aí aeaeYiaoa adop çyi adeeiaP, oi dnuanaia "BlizKick" ea ÷ nçoeiioieçaa aea oi ounoia ççd "mathieeingbas.library". Adop ç adeeiaP Y ÷ ae iucia ai ÷ nçoeiioieçaa Paç oi "BlizKick" (d. ÷. : aeao ÷ nçoeiioieçaa oi "EXEC V44", P eYeaoo ia Y ÷ aoo aeaoiaoeEP Yeaoc Kickstart). Aí oi "BlizKick" abiaa Paç aaaoaoaoçiyfi, ueao ie adanaoçooao aeaaYd ooc "startup-sequence" abioae adouiaoa. Ç adeeiaP adop dnuanaia ooi dnuanaia ooi ÷ nPooao dio ÷ nçoeiioieçaa Paç oi "BlizKick". Aea ia abiaa ç aaaoUooaoç oufi "HSMathLibs" adouiaoa, dnydaa ia Y ÷ aoo Paç oi "BlizKick" (eaioc 1.24 beta 6 P iaayooanc) aaaoaoaoçiyfi. Ç aaaoUooaoç ooiã ÷ Baaoae ooi afoeaaiafi 5.0.0.

4.2.3 "'LoadModule'" Aí aeaeYiaoa adop çyi adeeiaP, oi dnuanaia "LoadModule" ea ÷ nçoeiioieçaa aea oi ounoia ççd "mathieeingbas.library". ÷ nçoeiioiePooa adou ai aai eYeaoo ia eUiaoa Yia dePnao ROM image reset-proof, iufi oaaeaneieiYia modules. Aí oi "LoadModule" abiaa Paç aaaoaoaoçiyfi, ueao ie adanaoçooao aeaaYd ooc "startup-sequence" ea abioi adouiaoa. Ç adeeiaP adop dnuanaia ooi dnuanaia ooi ÷ nPooao dio ÷ nçoeiioieçaa Paç oi "LoadModule" P διο eYeiioi iufi oaaeaneieiYia modules reset-proof. Aea ia abiaa ç aaaoUooaoç oufi "HSMathLibs" adouiaoa, dnydaa ia Y ÷ aoo Paç oi "LoadModule" (eaioc 40.7 P iaayooanc) aaaoaoaoçiyfi. Ç aaaoUooaoç ooiã ÷ Baaoae ooi afoeaaiafi 5.0.0.

4.2.4 "'LoadResident'" Aí aeaeYiaoa adop çyi adeeiaP, oi dnuanaia "LoadResident" ea ÷ nçoeiioieçaa aea oi ounoia ççd "mathieeingbas.library". Adop ç adeeiaP Y ÷ ae iucia ai ÷ nçoeiioieçaa Paç oi "LoadResident" oai adYeoaoç oio "BlizKick". Aí oi "LoadResident" abiaa Paç aaaoaoaoçiyfi, ueao ie adanaoçooao aeaaYd ooc "startup-sequence" ea abioi adouiaoa. Aea ia abiaa ç aaaoUooaoç oufi "HSMathLibs" adouiaoa, dnydaa ia Y ÷ aoo Paç oi "BlizKick" (eaioc 1.24 beta 6 P iaayooanc) eae oi "LoadResident" (eaioc 1.0.1 P iaayooanc) aaaoaoaoçiyfi. Ç aaaoUooaoç ooiã ÷ Baaoae ooi afoeaaiafi 5.0.0.

4.2.5 'Üeer' Aí aeaeYiaoa adop çyi adeeiaP, ç "mathieeingbas.library" adEU afoeanUooaoe ooi eaoUeiai LIBS:. EaiEU aeaaP aai abiaae ooc "startup-sequence". AdeeYioa adou iufi ai eYeaoo ia ÷ nçoeiioiePooaa çyi "mathieeingbas.library" aeEU aai idinaoaa ia ÷ nçoeiioiePooaa oa "BlizKick", "LoadModule" eae "LoadResident" P ai ÷ nçoeiioieçaa Paç Yia Üeer dnuanaia aea adou oi oeiou. Oeaiooaoaa uoe iYnao de eUiaoa!

5.0.0 'ΕΥεαοά ίά άάεαοάοοάεαβ οί manual αέα οέο "HSMathLibs"? Άαρ ιδιναβοά ίά ινβοαοά άί εΥεαοά ίά άάεαοάοοάεαβ οί manual Ρ ü÷έ. Ιδιναβοά ίά άδεεΥίαοά αβοά 'ίαέ' (άίοέεαβιαί 5.1.0) αβοά 'ü÷έ' (άίοέεαβιαί 5.2.0). Άί αέαεΥίαοά 'άεεααΡ οçο άάεαοάΟοοάοçο' οάι ογδι άάεαοάΟοοάοçο (άίοέεαβιαί 1.2.0), οά άίοέεαβιαί 5.0.0 ιΥ÷ñε 5.2.0 αάι άιοάιβαιτόοάε, εαερο οά αεαβίι οίι ογδι αάι άάεαεβοοάοάε οί manual. Ç άάεαοάΟοοάοç ούι "HSMathLibs" ιειεεçññίάοάε ίαοά.

5.1.0 'ίαέ' Άί αέαεΥίαοά αοδΡ οçί άδεειαΡ, οί manual εά άάεαοάοοάεαβ.

5.1.1 'Δαंनाεαερ άδεεΥίαοά αεροοά αέα οί manual.' Άαρ άιοάιβαιτόοάε üεαο ιε αέαεΥοείαο αεροοάο άέα οί manual. Δαंनाεαερ άδεεΥίαοά οç αεροοά διο άδεεοιαβοά.

5.1.2 'ΆάεαοάΟοοάοç οίο manual. Δαंनाεαερ άδεεΥίαοά ιιΥάά αβοείο Ρ εαοÜειαί. Αάι εά αçιειτοñaçεαβ οδιεαοÜειαο.' Άαρ ιδιναβοά ίά άδεεΥίαοά εαοÜειαί Ρ ιιΥάά αβοείο αέα οί manual. Ç οñιεαειñεοιΥίç αέααññιΡ αβιαέ "HELP:xxx" (üδιο xxx ç αεροοά διο άδεεΥίαοά ίά Υ÷αοά οοί manual). Ç άάεαοάΟοοάοç ούι "HSMathLibs" ιειεεçññίάοάε ίαοÜ.

5.2.0 'ü÷έ' Άί αέαεΥίαοά αοδΡ οçί άδεειαΡ, αάι εά άάεαοάοοάεαβ οί manual. Ç άάεαοάΟοοάοç ούι "HSMathLibs" ιειεεçññίάοάε ίαοÜ.

İ εαοÜειαο άάεαοάΟοοάοçο ούι "HSMathLibs" οñνεΥ÷άε οά αέüειοεά αñ÷αβά:

Êõñβùð εαοÜειαο: Άδοüð ι εαοÜειαο οñνεΥ÷άε οά manuals εάε οά Installer script αέα οέο οδιόοçñεαüιáíαò αεροοάο, εάε οί αñ÷αβί ATO.readme.

ÊáοÜειαο C: - Load-mathffp (ç áíοιεΡ "Load-mathffp" ÷ñçοείιδιεάβοάε αέα ίά οίñοροάε οç "mathffp.library" - áðu οίι εαοÜειαί Libs3 - εάε ίά οçί áñβιαέ) - mathffp-Patch (ç áíοιεΡ "mathffp-Patch" áíοέεάεεοóÜ üεαο οέο εάεοιτοñaβαò οοç "mathffp.library" ια άάεοέüιΥίáð áεäüοáέð) - mathieeesingbas-Patch (ç áíοιεΡ "mathieeesingbas-Patch" áíοέεάεεοóÜ üεαο οέο εάεοιτοñaβαò οοç "mathieeesingbas.library" ια άάεοέüιΥίáð áεäüοáέð)

ÊáοÜειαο Install: Άδοüð ι εαοÜειαο οñνεΥ÷άε ίαñεεÜ οñιαñÜιáοά διο εαεϊγίοάε áðu οίι Installer εαοÜ οçί άάεαοάΟοοάοç εάε áðáεαοάΟοοάοç. Αάι εά οñΥðáε ίά áεοάεϊγίοάε ία÷üñεοóÜ.

ÊáοÜειαο Libs: - mathieeedoubbas.library - mathieeedoubtrans.library - mathieeesingtrans.library - mathtrans.library

ÊáοÜειαο Libs2: - mathffp.library (άεάεεΡ Υέαιόç οçο "mathffp.library", διο ιδιναβ ίά οίñοüεαβ reset-proof ια οñιαñÜιáοά üðò οί "BlizKick", "LoadModule" êðε.) - mathieeesingbas.library (άεάεεΡ Υέαιόç οçο "mathieeesingbas.library", διο ιδιναβ ία οίñοüεαβ reset-proof ια οñιαñÜιáοά üðò οί "BlizKick", "LoadModule" êðε.)

ÊáοÜειαο Libs3: - mathffp.library (άεάεεΡ Υέαιόç οçο "mathffp.library", διο ιδιναβ ία οίñοüεαβ ια οçί áíοιεΡ "Load-mathffp")

ÊáοÜειαο S: - HSMathLibs

ÊáοÜειαο Uninstall: Άδοüð ι εαοÜειαο οñνεΥ÷άε οί οñüαñαίá ΆðáεαοάΟοοάοçο αέα üεαο οέο οδιόοçñεαüιáíαò αεροοάο.

ÊáοÜ οçί άάεαοάΟοοάοç ούι "HSMathLibs", οά αέüειοεά αñ÷αβά άάεαεοοόγίοάε:

ÊáοÜειαο C: - Load-mathffp (ιüíí áí ç áðεειαΡ "Load-mathffp + mathffp.library" αέαεΥ÷εçεά εαοÜ οçί άάεαοάΟοοάοç) - mathffp-Patch (ιüíí áí ç áðεειαΡ "mathffp-Patch" αέαεΥ÷εçεά εαοÜ οçί άάεαοάΟοοάοç) - mathieeesingbas-Patch (ιüíí áí ç áðεειαΡ "mathieeesingbas-Patch" αέαεΥ÷εçεά εαοÜ οçί άάεαοάΟοοάοç)

ÊáοÜειαο LIBS: - mathffp.library (ιüíí áí ç áðεειαΡ "Load-mathffp + mathffp.library" or "mathffp.library" αέαεΥ÷εçεά εαοÜ οçί άάεαοάΟοοάοç) - mathieeedoubbas.library - mathieeedoubtrans.library - mathieeesingbas.library (ιüíí áí ç áðεειαΡ "mathieeesingbas.library" αέαεΥ÷εçεά εαοÜ οçί άάεαοάΟοοάοç) - mathieeesingtrans.library - mathtrans.library

ÊáοÜειαο S: - HSMathLibs

Êáοάεüιáε ENVARC: εάε ENV: - HSML-bakdir - HSML-mathffp - HSML-mathieeesingbas

Üεειε εαοάεüιáε Ρ ιιΥάά αβοείο: Οί áíοβαñαοί εάε οί manual (άί αçορðεçεά ç άάεαοάΟοοάορ οίο) οιδιεαοίγίοάε οοί εαοÜειαί Ρ ιιΥάά αβοείο διο ιñβεαοά οάαβò.

Ðεçññιοñβáð αέα οί "mathffp-Patch" εάε "mathieeesingbas-Patch" -άí οί áíοέεάβιαί 3.1.0 ("mathffp-Patch") εάε/Ρ οί áíοέεάβιαί 4.1.0 ("mathieeesingbas-Patch") αέαεΥ÷εçεάί εαοά οçί άάεαοάΟοοάοç:

Αάι αβιαέ οüοί οçίáíοέεü οί διγύ οά patches ("mathffp-Patch", "mathieeesingbas-Patch") αñβοείοάε. Ιδιñιγί ίá áεοάεαοόγίí áðu ιδιοαΡδιοά οοί "user-startup", "draco-startup" Ρ οοçί "startup-sequence", ίαοÜ οί "SetPatch" (άεüιá εάε ίαοÜ οί "LoadWB"). ÊáοÜ οçί άάεαοάΟοοάοç ούι "HSMathLibs" áεΥã÷áοάε áí οί "draco-startup" οðÜñ÷áε. Άί ίάε, οά patches áεοÜαίγίοάε οοί "draco-startup". Άί οί "draco-startup" αάι οðÜñ÷áε, οά patches áεοÜαίγίοάε οοί "user-startup".

Ðεçññιοñβáð αέα οί "Load-mathffp" - áí οί áíοέεάβιαί 3.2.0 ("Load-mathffp" + "mathffp.library") άδεεΥ÷εçεά εαοÜ οçί άάεαοάΟοοάοç:



Ç áíðíēḆ "Load-mathffp" áέóŪāāóáέ óóçí áñ÷Ḇ óçð "startup-sequence". ÊāēḆ ç áíðíēḆ "Load-mathffp", ðíð òíñðḆíāέ óç ḆŶá "mathffp.library", ðíññāḆ íá êāέðíðñāḆḆóáέ ðíññ íá ç ROM-based "mathffp.library" āāí Ŷ÷āέ áñíé÷ēāḆ āéúíā, áðòú āāí ðñŶḆāέ íá āēēŪíāέ.

Óçíáíðéēú

ÁóāēñŶóāā úēā óá Ūēēā patches (ð.÷. "FASTIEEE", "ffppatch", "msbpatch", math-patch òíð "MCP") óðéð áéāēíēḆēāð ðāçíáðéēḆí.

Ōá patches ðíð "SetPatch" āḆíāέ áíðŪíāέ.

### 1.6 ἈðāēāóŪóðáóç

ἈðāēāóŪóðáóç: ~~~~~

Ìā ðí ðñúāñāíā "Uninstall" ðíññāḆā íá áðáíáóŶñāðā (áðáíāāāñŪóāðā) ðí áíðḆāñāóí ðíð āçíēíðñāḆóáá éáðŪ óçí āāéāðŪóðáóç, Ḇ íá áóāēñŶóāā ðéð "HSMATHLibs" áíðāēḆð áðú ðí óēēçñú óáð āḆóēí. ÌāēéḆóðā ðí "Uninstall\_xxx" (úðíð xxx ç āēḆóóá ðíð ðñíðēíŪóā) éáé óíñ÷Ḇóā óçí áðāēāóŪóðáóç úððð ðññēñŪóðáóé āāḆ.

ḆñḆóá ðíðáíḆāéáóé ç óāēḆāā áðēēíāḆí. ÌāðŪ ç áðāēāóŪóðáóç óóíñ÷Ḇāé úððð óāḆíáðáé ðāñāéŪóð.

1.0.0 'ḆāñāéāēḆ áðēēŶíðā ðíññāḆā íá áðēēŶíñāðā óýðí áðāēāóŪóðáóçð ðúí "HSMATHLibs". ÌðññāḆā íá áðēēŶíñāðā āḆóā 'ἈðáíáóíñŪ (áðáíāāāñāóḆ) áíðēñŪóíð áóóāéāḆáð' (áíðéēāḆíāñ 1.1.0) āḆóā 'ÁóāḆñāóç' (áíðéēāḆíāñ 1.2.0).

1.1.0 'ἈðáíáóíñŪ (áðáíāāāñāóḆ) áíðēñŪóíð áóóāéāḆáð' Áí áéāéŶíñāðā áððḆ óçí áðēēíāḆ, ðí áíðḆāñāóí ðíð āçíēíðñāḆóáá éáðŪ óçí āāéāðŪóðáóç áðáíáóŶñāðáé (áðáíāāāñŪóāðáé). Óá āñ÷āḆá ðíð ðāñēŶ÷ííóáé óðí áíðḆāñāóí áðáíáóŶññíóáé (áðáíāāāñŪóííóáé) éáé úēā óá āñ÷āḆá ðúí "HSMATHLibs" ðíð āāí āḆíāé óðí áíðḆāñāóí āēēŪ ðŌŪ÷íðí óðí boot partition áéāāñŪóííóáé. ÓóíāḆð íē ñðēíḆóáéð ðíð óóóðḆíáðíð, ðíð ððḆñ÷áí ðñéí óçí āāéāðŪóðáóç ðúí "HSMATHLibs", áðáíáóŶññíóáé. Íé áēēāāŶð (ð.÷. óóç "startup-sequence"), ðíð Ŷāéíáí ðāðŪ óçí āāéāðŪóðáóç éáé óóíāḆð āāí ðāñēŶ÷ííóáé óðí áíðḆāñāóí, ÷Ūñííóáé. Áí áéā éŪðíēí ēūāí ðíðáíḆóðçēā óóŪēíā éáðŪ óçí āāéāðŪóðáóç ðúí HSMATHLibs, ðñŶḆāé ðíðíóāḆðíðā íá ÷ñçóēíðíēḆóáá áððḆ óçí áðēēíāḆ.

1.1.1 'ḆāñāéāēḆ áðēēŶíðā óç ðíññāḆā āḆóēíð Ḇ ðí éáðŪēíāḆ ðíð ðāñēŶ÷āé ðíññāḆā "HSML-BAK".' ἈāḆ ðíññāḆā íá áðēēŶíñāðā óç ðíññāḆā āḆóēíð Ḇ ðíññāḆā ðíð ðāñēŶ÷āé ðíññāḆā áíðēñŪóíð "HSML-BAK". Ç ðññāðēēāāŶíç áéāāññḆ āḆíāé āḆóā "LIBS:" āḆóā ç áéāāññḆ ðíð ðñḆāéáóé óóç ðāðāāēçðḆ ENV "HSML-bakdir". ḆāñāéāēḆ āēŶāñðā áí áðòú ðāēñēŪāéé óóç ðāñḆððòḆ óáð. Ç áðāēāóŪóðáóç ðúí "HSMATHLibs" íēíēççñḆíáðáé ðāðŪ.

1.2.0 'ÁóāḆñāóç' Áí áéāéŶíñāðā áððḆ óçí áðēēíāḆ, áðē÷āēññāḆáé ç ðēḆñçð áóāḆñāóç ðúí āñ÷āḆúí éáé āāñāóḆí ðúí "HSMATHLibs" (ð.÷. óóç "startup-sequence") éáé ç áðáíāāéāóŪóðáóç ðúí āñ÷ēḆí ðāçíáðéēḆí áéāēíēççḆí. Áí éŪíáðā óçí āāéāðŪóðáóç ðúí "HSMATHLibs" ÷āēññḆíçðā, Ḇ óçí āēēŪíáðā, óá ðāñēŶð ðāñēððóáéð Ḇòðð ðāññóéāóðíŶí ðññāēḆíáðā. Áí, éáðŪ óçí āāéāðŪóðáóç, áéāéŶíñāðā óçí áðēēíāḆ "mathffp.library" Ḇ "mathieeesingbas.library" éáé ðāðŪ óçí áðēēíāḆ "Ūēēí", ðúðā ðíññāḆā áāēāðáðóçíŶíá āñ÷āḆá áóāēñíŶíóáé éáé íē āñ÷ēŶð ðāçíáðéēŶð áéāēíēḆēāð āāēāééóðíŶíóáé. ¼ēāð íē āāñāóŶð (ð.÷. óóç "startup-sequence"), ðíð éŪíáðā ÷āēññḆíçðā, ðñŶḆāé íá áóāēñāēíŶí áðḆóçð ÷āēññḆíçðā (ðñéí óçí áðāēāóŪóðáóç, áí āḆíāé áðíáðúí).

2.0.0 'ÉŶēāðā íá áéāāñāóāḆ ðí "HSMATHLibs" manual;' ἈāḆ ðíññāḆā íá ðñḆóāðā áí éŶēāðā ðí manual ðúí "HSMATHLibs" íá áéāāñāóāḆ Ḇ ðíññāḆā íá áðēēŶíñāðā āḆóā 'íáé' (áíðéēāḆíāñ 2.1.0) Ḇ 'ú÷é' (item 2.2.0).

2.1.0 'íáé' Áí áéāéŶíñāðā áððḆ óçí áðēēíāḆ, ðí manual éā áéāāñāóāḆ.

2.1.1 'ḆāñāéāēḆ áðēēŶíñāðā ðí manual.' ἈāḆ ðíññāḆā íá áðēēŶíñāðā ðí manual ðíð éā áéāāñāóāḆ. Ç ðññāēāēñéóíŶíç áéāāññḆ āḆíāé "HELP:xxx" (úðíð xxx ç āēḆóóá ðíð áéāéŶíñāðā áéā óçí áðāēāóŪóðáóç). ḆāñāéāēḆ āēŶāñðā áí áðòú ðāēñēŪāéé óóç ðāñḆððòḆ óáð. Ç áðāēāóŪóðáóç óóíñ÷Ḇāé óðí áíðéēāḆíāñ 3.0.0.

2.2.0 'ú÷é' Áí áéāéŶíñāðā áððḆ óçí áðēēíāḆ, ðí manual āāí áéāāñŪóðáóé.

3.0.0 'ḆāñāéāēḆ áðēēŶíñāðā ðíññāḆā ðíð ðāñēŶ÷āé ðéð āñ÷ēŶð math libraries.' ἈāḆ ðíññāḆā íá áðēēŶíñāðā ðíññāḆā ðíð ðāñēŶ÷āé ðéð āñ÷ēŶð ðāçíáðéēŶð áéāēíēḆēāð. Íé āñ÷ēŶð ðāçíáðéēŶð áéāēíēḆēāð ðíññíŶí ð.÷. íá āñāēíŶí óóç áéóéŶðā Ḇ ðí CD Workbench, āēēŪ óá éāíēŪ ðāñḆððòḆ óðí éáðŪēíāḆ "Libs" ðíð áéāíāñḆóíáðíð óóóðḆíáðíð Ḇ āēēḆíççð. Ç ðññāðēēāāŶíç áéāāññḆ ðñḆāéáóé óýíòúíā ðā óçí Ŷēāíóç ðíð OS ðíð āḆíāé āāēāðáðóçíŶíñ. Óðí OS 2.0 áðòú āḆíāé "Workbench2.0:Libs", óðí OS2.1 "Workbench2.1:Libs", óðí OS3.0 "Workbench3.0:Libs", óðí OS3.1 "Workbench3.1:Libs", óðí OS3.5 "AmigaOS3.5:OS-Version3.1/Workbench3.1/Libs" éáé óðí OS3.9 "AmigaOS3.9:OS-Version3.9/Workbench3.9/Libs". ḆāñāéāēḆ āēŶāñðā áí áðòú ðāēñēŪāéé óóç ðāñḆððòḆ óáð. Áí Ŷ÷āðā āāēāðáðóçíŶíñ ðí OS3.9, éáé āāēāðáðóḆóáðā ðéð áéāēíēḆēāð áðú ðí BoingBag 1 Ḇ

BoingBag 2 δñέί όέό "HSMathLibs", όüόά άάί έά δñÝðáέ ίά άðέέÝίάόά όί έάόÜείάί "AmigaOS3.9:OS-Version3.9/Workbench3.9/Libs" όάί ðçāÞ. Óά άóðÞ όç δāñβðóúόç έά δñÝðáέ ίά έέάέÝίάόά όί έάόÜείάί "\*HSML-BAK/Libs" (üðίό "\*" ί έάόÜείάίό Þ ίίÜää άβóείό ðίό δāñέÝ ÷ áέ όί άίόβāñάóί) όάί ðçāÞ (άóóü άÝάάέά ίά όçί δñíüðüέάόç üέé άçίέίóñāÞóάά όί άίόβāñάóί). Óóί OS3.9 CD (άóóü έó ÷ ýáέ áέüüά έάέ άί άέάάόάόðóάά όί BoingBag 1 Þ BoingBag 2), ç "mathtrans.library" άάί άñβóέάόάέ όóίí Βáέί έάόÜείάί ίά όέó Üέέάó áέάέέίεÞέάó. ÓóίάðÞð ç áðāέέάóÜóóάόç óóίá ÷ Βæάόάέ όóί άίόέέάβίáíí 3.1.0. Óά üέάó όέó Üέέάó áέάüóάέó όίό OS, ç áðāέέάóÜóóάόç óóίá ÷ Βæάόάέ όóί άίόέέάβίáíí 4.0.0.

3.1.0 'ÐāñāέέéÞ áðέέÝίόά όίί έάόÜείάί ðίό δāñέÝ ÷ áέ όçί άñ ÷ έέÞ "mathtrans.library". ΆäÞ ίðñāβóά ίά άðέέÝίάόά όί έάόÜείάί ðίό δāñέÝ ÷ áέ όçί άñ ÷ έέÞ "mathtrans.library". Ç ðñíέάέίñέóίÝίç áέάāññÞ άβίάέ "AmigaOS3.9:OS-Version3.9/Workbench3.5/Libs". ÐāñāέέéÞ äέÝáíóά άί άóóü óάέñέÜæáέ óóçί δāñβðóóóÞ óáó. Άóóü όί άίόέέάβίáíí àìóáíβæάóάέ üüíí άί άβίάέ άέάάóóóçίÝíí όί OS 3.9.

4.0.0 'ÈÝέάóά ίά έέάāñāóāβ όί άίόβāñάóί óüí "HSMathLibs"; ΆäÞ ίðñāβóά ίά άçéÞóáóά άί èÝέάóά όί άίόβāñάóί óüí "HSMath-Libs" ίά έέάāñāóāβ Þ ü ÷ é. Ìðñāβóά ίά άðέέÝίάόά άβóά 'ίáέ' (άίόέέάβίáíí 4.1.0) Þ 'ü ÷ é' (άίόέέάβίáíí 4.2.0).

4.1.0 'ίáέ' Άί áέάέÝίáóά άóóÞ όçί áðέέίāÞ, όί άίόβāñάóί έáέ ç ίáóáάέçóÞ ENV "HSML-bakdir" έá έέάāñáóíýí.

4.1.1 'ÐāñāέέéÞ áðέέÝίόά όç ίííÜää άβóείό Þ όί έάόÜείάί ðίό δāñέÝ ÷ áέ όίί έάόÜείάί "HSML-BAK". ΆäÞ ίðñāβóά ίά άðέέÝίáóά όç ίííÜää άβóείό Þ έάóÜείάί ðίό δāñέÝ ÷ áέ όί έάóÜείάί άίόέāñÜóίó "HSML-BAK". Ç ðñíέάέίñέóίÝίç áέάāññÞ άβίáέ άβóά "LIBS:" άβóά ç áέάāññÞ ðίó íñβæάóάέ óóçί ίáóáάέçóÞ ENV "HSML-bakdir". ÐāñāέέéÞ äέÝáíóά άί άóóü óάέñέÜæáέ óóçί δāñβðóóóÞ óáó. Ç áðāέέάóÜóóάόç óüí "HSMathLibs" ίέίέéçñÞíáóάέ ίáóÜ.

4.2.0 'ü ÷ é' Άί áέάέÝίáóά άóóÞ όçί áðέέίāÞ, όί άίόβāñάóί έáέ ç ίáóáάέçóÞ ENV "HSML-bakdir" άáί έá έέάāñáóíýí. Ç áðāέέάóÜóóάόç óüí "HSMathLibs" ίέίέéçñÞíáóάέ ίáóÜ.

### 1.7 ΆíüóóÜ ÓóÜέíáóά

ΆíüóóÜ óóÜέíáóά: ~~~~~

- ç áāāāñāññÝίç Ýέäίόç όίó UltraConv V3.x άáί äíóéáýáέ ίá όέó HSMathLibs. Óί UltraConv V4.x äíóéáýáέ ίέá ÷ āñÜ ίá óá HSMathLibs.

### 1.8 ÍÝáó áéäüóáέó

ÍÝáó áéäüóáέó: ~~~~~

Ç óáέáóóάβá Ýέäίόç ίðñāβ ίá āñāέāβ óóç óáέβāá "http://WWW.HSMathLibs.de/".

Ìðñāβóά ίá ðÜñāóά άíáάέίβóáέó áðáóéáβáó áðü όίί áçίέίóñāü . ¶í èÝέáóά ίá ðÜñāóά όçί óáέáóóάβá Ýέäίόç ίá óá ÷ óāññāβí, óóāβéóά ííó ίέá áέóéÝóóá (HD Þ DD) έáέ Ýίá óÜέáέί ίá όç áέáýðéóíóÞ óáó έáέ āñāíáóóóçίí Þ 3,- EUR (ΆóñÞ) Þ 3,- \$ (ΆίέéÜñέá ÇÐÁ) Þ 2,- £ (Έβñáð Ç.Λ.).

### 1.9 Ðāñéíñέóííβ

Ðāñéíñέóííβ όçó Ýέäίόçóð áðβāáέίçò: ~~~~~

Ç áðβāáέίç óüí "HSMathLibs" àìóáíβæáέ óó ÷ íÜ ίβá áβóçόç ðéçñíóíñéÞí.

### 1.10 ΆāñāóÞ

ΆāñāóÞ: ~~~~~

Íé "HSMathLibs" άβίáέ Shareware. ¶íá èÝέáóά ίá ÷ ñçóέίíðίέÞóáóά όçί Ýέäίόç ÷ ùñβó ðāñéíñέóííýð δñÝðáέ ίá áāñāóāβóáέ έáέ ίá ðéçñÞóáóά. ÐāñāέέéÞ ÷ ñçóέίíðίέÞóáóά όçί óüññíá áāñāóÞð óóçί óáέβāá ίáó "http://WWW.HSMathLibs.de/" áέá áāñāóÞ. Άί èÝέáóά ίá ðÜñāóά όçί ðéÞñç Ýέäίόç ίá óá ÷ óāññāβí, óóéāβóά ííó ίέá áέóéÝóóá (HD Þ DD) έáέ Ýίá óÜέáέί ίá όç áέáýðéóíóÞ óáó

έάεβδ έάέ άñàìàòùóçíá Þ 3,- EUR (Άðñþ) Þ 3 \$ (ÄieëÜñéá ÇÐÁ) Þ 2 £ (Ëßñàð Ááäëßáð) άðέðéÝíí. Ìðíñáßòá íá άñáßòá ðçí áéáyéðíðÞ ïð ðòí **αçíεíññäü** . ΆðέεíεíññÞðòá áéá ðíí ðñάðάæééü ïð εíáñéάóíü. ¼εðά éÜàù ðá ÷ ñÞíáðά éá óáð óðάßèü Ýíá άñέεíü ááñááðÞð έάέ úñíá ÷ ñÞðóç áéá íá έάðááÜóáðά ðçí ðεÞñç Ýέαιòç έάέ üεð ðéð áíáááεíßòáéð áðü ðçí óáεßáá íáð.

ðçíÞ Ýέαιòç MC68881/82: 5,- EUR (Άðñþ) Þ 7,- \$ (ÄieëÜñéá ÇÐÁ) Þ 5,- £ (Ëßñàð Ááäëßáð) Ýέαιòç MC68040: 5,- EUR (Άðñþ) Þ 7,- \$ (ÄieëÜñéá ÇÐÁ) Þ 5,- £ (Ëßñàð Ááäëßáð) Ýέαιòç MC68060: 5,- EUR (Άðñþ) Þ 7,- \$ (ÄieëÜñéá ÇÐÁ) Þ 5,- £ (Ëßñàð Ááäëßáð)

### 1.11 ΆέέάέÞíáðά

ΆέέάέÞíáðά: ~~~~~

Ç Ýέαιòç άðßááέίçð ðùí "HSMathLibs" ïðíñáß íá áéáíáíçεάß áéáyéðáñá áñéáß ÍÁ ÌÇÍ ÁÉË×ÈÁÉ έάέ ÌËÁ ðá áñ÷áßá íá ðáñέέáíáÜñíðáé ×ÜÑÉÓ ÁÉËÁÁÓ. Ç ááááñáñíÝíç Ýέαιòç ðùí "HSMathLibs" áßíáé ÌÏÏ áéá ááááñáñíÝíñðð ÷ ñÞðóðáð. Ìé "HSMathLibs" έάέ ï áñέεíüð ááñááðÞð ÁÁÍ ðÑÁÐÁÉ íá αçííóέáyííðáé Þ íá áíóέáñÜóííðáé.

Ôí Re/disassembling ðùí "HSMathLibs" ÁÁÍ άðέðñÝðáðáé.

ÉÄÉÁÉÓÄÑÁ ÓÇÌÁÍÓËËÏ:

Ìé "HSMathLibs" ðÁÑÁ×ÏÍÓÁÉ ×ÜÑÉÓ ÔËÐÏÓÁ ÁÐËËËÁÏ. ×ñçóéíðíεÞðòá ðáð ïá ÄËËÇ ÓÁÓ ÁÕËÏÏÇ.

Ï αçíεíññäüð ÁÁÍ ÁÉÍÁÉ ÕÐÁÏËÏÏÓ áéá ïðíεááÞðíðά áðÞεάé ðíð ðóíÝáç Üíáðά Þ Ýííáðά áðü ðç ÷ ñÞðóç ðùí "HSMathLibs".

¼έá ðá áέέάέÞíáðά ðáñáíÝíñí. ðáñáέέÞð óðáßèðά áíáóíñÝð óóáεíÜòùí έάέ ðñíðÜóáéð.

### 1.12 Éóðíñßá

Éóðíñßá: ~~~~~

HSMathLibs V.44.50 (01.02.1999 - 12.10.2002): \_\_\_\_\_

HSMathLibs V.44.41 (01.04.1999 - 09.06.2000): \_\_\_\_\_ - Bugfixing of the functions "SPFix", "SPFlt", "SPAdd", "SPSub", "SPMul", "SPDiv", "SPFloor", "SPCeil" (mathffp.library), "IEEESPFix", "IEEESPFIt", "IEEESPAAdd", "IEEESPSUB", "IEEESPMul", "IEEESPDIV", "IEEESPFloor", "IEEESPCeil" (mathieeesingbas-Patch), "IEEEDPFix", "IEEEDPFIt", "IEEEDPAdd", "IEEEDPSUB", "IEEEDPMul", "IEEEDPDIV", "IEEEDPFloor", "IEEEDPCeil" (mathieeedoubbas.library), "IEEED-PAtan", "IEEEDPSin", "IEEEDPCos", "IEEEDPTan", "IEEEDPSincos", "IEEEDPSinh", "IEEEDPCosh", "IEEEDPTanh", "IEEED-PExp", "IEEEDPLog", "IEEEDPPow", "IEEEDPSqrt", "IEEEDPTiee", "IEEEDPFiee", "IEEEDPAsin", "IEEEDPAcos", "IEEED-PLog10" (mathieeedoubtrans.library), "IEEESPAtan", "IEEESPSin", "IEEESPCos", "IEEESPTan", "IEEESPSincos", "IEEESPSinh", "IEEESPCosh", "IEEESPTanh", "IEEESPExp", "IEEESPLog", "IEEESPPow", "IEEESPSqrt", "IEEESPAasin", "IEEESPAcos", "IEEESPLog10" (mathieeesingtrans.library), "SPAtan", "SPSin", "SPCos", "SPTan", "SPSincos", "SPSinh", "SPCosh", "SP-Tanh", "SPExp", "SPLog", "SPPow", "SPSqrt", "SPAsin", "SPAcos" and "SPLog10" (mathtrans.library)

- Bugfixing of the mathffp-Patch and the init-function in the mathieeesingbas-Patch
- changed the init-function in the mathieeesingbas-Patch; the command run are not more required (thanks to Stephan Rupprecht)
- installerscript overwork

HSMathLibs V.44.40 (31.03.1999): \_\_\_\_\_ first public version

### 1.13 Ôí ÌÝéëí

Ôí ÌÝéëí: ~~~~~

Ôá ðáñáéÜòùí áßíáé óçç έßòðά áéá íÝáð áεäüóáéð ðùí "HSMathLibs".

- έάέ Üëç óá÷ýðçðά;
- Ìé ðñíðÜóáéð óáð

### 1.14 Åõ ÷ añéóòβào

Åõ ÷ añéóòβào: ~~~~~

ÈÝèù íá åõ ÷ añéóòβòù óá áéüëïðèá ðñüóùðá éáé åðáéñβào: -----

- üëïðð ðïðð ååååññáíìÝñðð ÷ ñβóðåð
  - Uwe Schienbein: åéá betatesting
  - ALex Kazik: åéá betatesting éáé áíáöïñÝð óöáëìÛðùí
  - Jens Schildknecht; åéá betatesting éáé áíáöïñÝð óöáëìÛðùí
  - Kai Fleischer; åéá ðç ìåðÛðñáóç (english) ðùí ïäçæþí
  - Massimo Gais; åéá ðç ìåðÛðñáóç (italiano) ðùí ïäçæþí
  - Llorenç Grau; åéá ðç ìåðÛðñáóç (catalan) ðùí ïäçæþí
  - Juergen Urbanek; åéá betatesting éáé áíáöïñÝð óöáëìÛðùí
  - Jens Troeger; åéá ðç ððüååéíå óðí installerscript
  - Dietmar Heidrich; åéá ðí "OMA"
  - Frank Wille; åéá ðí "PhxAss"
- óðååñþìç áí îÝ ÷ áóá èÛðíéíí

### 1.15 Äçíéïññüò

Äçíéïññüò: ~~~~~

Matthias Henze Gorkistrasse 127 04347 Leipzig Germany

fon: +49 (0) 341/2326414

email: Matthias.Henze@HSMathLibs.de

URL: <http://WWW.HSMathLibs.de/>

ÐÛíóá øÛ ÷ ñü åéá áíáöïñÝð óöáëìÛðùí éáé ðñïðÛóåðð. Ðåβòå ñð ðç ãþìç óåð åéá óá "HSMathLibs".

ÄèçéíéÝð ïäçåβào: ~~~~~ Äéá ðñíåþñíåðá éáé ðñïðÛóåðð ó ÷ åðéèÛ ìåðð äèçéíéÝð ïäçåβào, óðåβèðå email óðíí: Äçíððñç Ðáñíþððå <midwan@freemail.gr>

### 1.16 Åñåòþñéí

Åñåòþñéí: ~~~~~

Á

Áðáéðþóåðð ÁðååéåðÛóóáóç

Ã

ÃñóðÛ ÓðÛéíåðá

Ä

Äééåéþíåðå Äçíéïññüò

Å

ÅåéåðÛóóáóç Åååñåðþ ÁéåéèÛ Åññβóíåðå Áéóååñþ Åõ ÷ añéóòβào

É

Éóóĩñβá

Í

ÍÝàò àèàùíóáéò

Ð

Ðãñéĩñéóĩìβ

Ô

Ôĩ ìÝèèĩ