

TI68k : 10 ans !

10 ans de TI-68k !

Cette page est en cours de rédaction.

Ceci est un article présentant un historique des Calculatrices Texas Instruments basées sur un processeur Motorola 68000. Il a été rédigé pour figurer sur le site squalenet.net, ainsi que pour être posté dans la section "Actu-Divers" du "Forum TI" de yAronet.com, sous réserve d'accord avec les administrateurs du forum en question.

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Disclaimer

N'étant moi-même réellement arrivé dans la communauté que vers Novembre 2000, je n'ai pas pu assister à une partie des événements qui ont marqué le début de l'ère des TI-68k ; je m'efforcerai de donner les informations les plus pertinentes possibles, cependant, à partir des divers documents que j'ai pu trouver sur le sujet.

J'ajouterais que, étant français, et n'ayant pas toujours véritablement prêté attention à ce qui se passait au niveau de la communauté internationale, il est possible que j'ai tendance à plus insister sur le rôle tenu par certains français que sur celui qu'ont tenu des membres de la communauté internationale. Cela dit, je ne cherche bien évidemment pas à minimiser leur rôle.

Je ne saurais être tenu pour responsable de tout dommage, tant physique que moral, causé par cet article ou son contenu, que ce soit à vous, à votre calculatrice, ou à quoi que ce soit d'autre.

Introduction

Cette année, cela fera 10 ans que Texas Instruments produit des calculatrices basées sur un processeur Motorola 68000, généralement abrégé 68k, ce qui explique l'appellation "TI-68k".

A l'occasion de cette année anniversaire, voici un petit historique concernant ces calculatrices, qui nous permettent de nous réunir ici autour d'une passion commune.

En première partie, je commencerai par présenter les différents modèles de TI-68k, classées par années de sorties ; ensuite, en seconde partie, je dresserai un historique des grands kernels qui ont existés. Pour continuer, je montrerai quelques exemples de jeux, illustrant ce que nos machines permettent ; et je finirai par quelques mots à propos du futur...

Les TI-68k à travers les âges

Selon la façon de compter que l'on adopte, on peut considérer qu'il existe deux, trois, quatre, voire plus même, modèles de TI-68k. Toujours est-il que le premier de ceux-ci date de 1995, et que le dernier arrivé sur le marché, au moment où je rédige cet article, date de 2004.

1995 : TI-92

En 1995, Texas Instrument lance sur le marché une nouvelle calculatrice, totalement révolutionnaire par rapport aux modèles déjà existant.

Tous les modèles précédents étant basés sur des processeurs de type Z80, la TI-92 est la première calculatrice TI à intégrer un microcontrôleur de type Motorola 68000 cadencé à 10MHz.

Sur les présentoirs des magasins, elle attire tout de suite l'œil : tout d'abord, contrairement à tous les autres modèles de calculatrice, elle ne se tient pas verticalement, mais horizontalement, ceci étant dû au fait qu'elle intègre un véritable clavier QWERTY, qui apporte un confort qui n'avait encore jamais été vu sur calculatrice.

De plus, la TI-92 propose un grand écran, de 240x128 pixels, la possibilité de tracer des graphes en 3D, un éditeur de textes, et un langage de programmation évoluée proche à la fois du BASIC et du PASCAL.

La TI-92 est aussi, chez Texas Instrument, la première calculatrice proposant le calcul formel, qui permet de travailler avec de véritables expressions mathématiques sans que celles-ci ne soient nécessairement évaluées.

AMS, le cerveau mathématique des TI-68k, inclut de nombreuses fonctions, parmi lesquelles on peut citer la résolution d'équations, la manipulation de matrices, ou encore, le calcul de données statistiques.

Known ROM versions: 1.0b1 (13 Sept 1995), 1.2 (11 Oct 1995), 1.3 (20 Oct 1995), 1.4 (17 Nov 1995), 1.5 (2 Jan 1996), 1.7 (18 Jan 1996), 1.8 (28 Feb 1996), 1.10 (20 March 1996), 1.10 (26 March 1996), 1.11 (11 Apr 1996), 1.12 (8 May 1996), 2.1 (19 Aug 1996)

1996 : TI-92 II

Le modèle suivant, dans la famille des TI-68k, est la TI-92 II, apparue en 1996.

En réalité, la TI-92 II est une TI-92 "simple", à laquelle un module a été ajouté, via le port d'extension intégré à la machine. Ce module permet de rajouter 128Ko de mémoire, et intègre le support de localisation, c'est-à-dire, le fait de pouvoir basculer sa calculatrice dans une autre langue que l'anglais.

Ce module était disponible à la vente seul, pour ceux qui possédaient déjà une TI-92.

ROMs : 1.2 1.3 1.4 1.5 1.7 1.8 1.10 1.11 1.12 2.1

1998-99 : TI-92 Plus

1998 marque la sortie d'un nouveau modèle de TI-68k : la TI-92 Plus.

Cette nouvelle calculatrice est la première de sa catégorie à intégrer une mémoire flashable, qui permet à l'utilisateur de mettre à jour le logiciel interne de la calculatrice, ce qui était jusqu'à présent impossible.

La TI-92 Plus rajoute, par rapport à la TI-92 II, environ 700Ko de mémoire dite "d'archive", qui correspond à une portion de la mémoire flashable qui est utilisable par l'utilisateur pour y stocker ses données. Avec cette machine, on arrive donc à plus de 180Ko de mémoire RAM, et plus de 700Ko de mémoire d'archive.

La TI-92 Plus existe sous deux formes :

- Pour ceux qui possédaient déjà une TI-92, éventuellement étendue en TI-92 II, il était possible d'acheter un module dit "Module Plus" s'enfichant dans le port d'extension de la machine, afin de la transformer en TI-92+. Ceci correspond à ce qui est généralement appelé HW1, pour HardWare 1.
- Et pour ceux qui ne possédaient pas déjà de TI-92, des TI-92+ intégrant les fonctionnalités du Module Plus directement au sein de la machine, sans qu'il n'y ait besoin d'un module enfichable, ont été fabriquées. Ces machines sont appelées HW2, pour HardWare 2.

Les TI-92+ HW1 ont gardé toutes les caractéristiques matérielles des TI-92, telles son micro-contrôleur à 10MHz, son écran bleu, ou encore son contrôleur d'écran, et ont juste rajouté de la mémoire.

Par contre, les TI-92+ HW2 disposent d'un écran noir plus lisible que l'écran bleu des TI-92, ainsi que d'un processeur plus rapide, maintenant cadencé à 12MHz au lieu de 10.

Au niveau du logiciel de mathématiques, les deux machines ont exactement les mêmes fonctionnalités.

Plus loin au cours de cet articles, nous traiterons des problèmes qui sont apparus avec les TI-92+ HW2, liés principalement à son écran, et à certaines "protections" rajoutées par Texas Instrument.

Known ROM versions: 1.00 (21 May 1998), 1.01 (5 Aug 1998), 2.03, 2.04, 2.05, 2.06, 2.07, 2.08, 2.09

1998 : TI-89

1998 a aussi marqué l'apparition de la TI-89.

Cette machine fourni exactement, en terme de logiciel, les mêmes fonctionnalités que la TI-92 Plus, et les seules différences sont au niveau de la taille. En effet, la TI-89 est plus petite que sa grande soeur, puisqu'elle est au même format que les modèles inférieurs de calculatrices graphiques conçues par Texas Instrument, telles la TI-83 ou la TI-86.

Pour cette raison, elle n'intègre pas de véritable clavier, et son écran est plus petit : il ne fait que 160x100 pixels.

Comme pour la TI-92 Plus, il existe deux versions matérielles, les HW1 et les HW2, disposant respectivement de processeurs Motorola 68000 cadencés à 10Mhz, et à 12MHz.

Par contre, contrairement aux TI-92+ HW1 dont l'écran est bleu, celui de toutes les TI-89, quelque soit leur version matérielle, est noir.

Known ROM versions: 1.00 (27 July 1998), 1.05 (2 June 1999), 2.03 (8 December 1999), 2.04, 2.05, 2.06, 2.07, 2,08, 2.09

2002 : Voyage 200 PLT

Après quelques années sans la moindre évolution, en 2002, Texas Instrument, probablement en réaction aux avancées réalisées chez la concurrence (je pense notamment à la Casio ClassPad 300), sort la Voyage 200 PLT.

Cette machine, en soit n'est pas vraiment une nouveauté. En effet, il ne s'agit que d'une TI-92 Plus HW2, avec un peu plus de mémoire : la seule différence entre la TI-92 Plus HW2 et la V-200 est que cette dernière met à la disposition de l'utilisateur 2.7Mo de mémoire d'archive, au lieu des 700Ko que l'on trouvait dans la TI-92 Plus.

Cela dit, le design de la calculatrice a été revu, et, même si elle reste une machine grand format, ses formes sont plus fines, plus en douceur, que celles de sa grande soeur la TI-92+.

Known ROM versions: 2.06, 2.07, 2.08, 2.09

2004 : TI-89 Titanium

Le dernier modèle de ti68k sorti au moment où j'écris cet article est la TI-89 Titanium, qui est apparue sur le marché en 2004.

Ce nouveau modèle de TI-89 rejoint la V-200 en termes de mémoire disponible, puisqu'elle fournit elle aussi à l'utilisateur 2.7Mo de mémoire d'archive.

Cependant, la grande nouveauté sur cette machine est l'apparition, pour la première fois chez Texas Instrument pour les ti68k, d'un port USB sur la calculatrice, en plus du port I/O Jack présent depuis toujours sur ces modèles. Tout comme le port I/O standard, le port USB permet de relier la TI-89 Titanium à une autre machine compatible, ainsi qu'à un ordinateur.

L'arrivée de ce nouveau mode de connexion provoque quelques modifications importantes au niveau matériel. La TI-89 Titanium est donc considérée comme le premier modèle HW3, pour HardWare 3.

Known ROM versions: 3.00

Résumé des différentes versions de ROM pour TI-92+, TI-89, et V-200

Pour résumer, voici les différentes versions de ROM qui sont sorties officiellement pour ces machines :

- 1.00 (21 mai 1998) : version initiale
- 1.01 (5 août 1998)
- 1.05 : compatibilité avec la version 2 de la plate-forme matérielle (HW2)
- 2.03 : possibilité d'utiliser toute la mémoire flash, mais limitation de la taille des programmes en assembleur à 8 Ko
- 2.04 : la limite de taille des programmes en assembleur est repoussée à 24 Ko
- 2.05 (2 juin 1999) : correction de bogues
- 2.06
- 2.07 : support de la TI Voyage 200
- 2.08 (16 août 2002) : menu à icônes, compatibilité avec les claviers externes, nouvelles fonctions trigonométriques et hyperboliques, affichage de la date et de l'heure (sur les matériels compatibles)
- 2.09 : prise en charge du TI-Navigator
- 3.00 : Support de la TI-89 Titanium
- 3.01 : Amélioration de la gestion des piles pour les présentations sur 89ti.

[Site de TI : Dernière version de ROM](#)

Quelques événements

Je vais maintenant lister quelques événements que l'on peut considérer comme se rapportant aux TI basées sur un Motorola 68k.

Etant donné, en dix ans, le nombre de choses qui se sont produites, le nombre de programmes qui sont sortis, et le nombre de news et d'articles qui ont été rédigés, il m'a fallu effectuer une sélection. Je me permet d'insister sur le fait que cette sélection est tout à fait personnelle ; un autre que moi n'aurait probablement pas retenu certains des faits que je cite ici, et en aurait certainement mis d'autres plus en valeur.

Pour construire cette partie, je me suis énormément basé sur l'historique des news de ticalc.org, accessibles, en anglais, [ici](#).

Fargo v1.0 Beta 12

Released November 10, 1996. First public release of Fargo, an assembly shell for the TI-92. (le readme dit septembre 1996)

Fargo II Released

Posted on 9 January 1998, 01:00 GMT

Yes, it is finally here! David Ellsworth released Fargo 0.2.0.1 today, with full ROM 2.1 support, a true object code linker, and much more. Both Linux and DOS versions have been released. You can download it here.

<http://www.ticalc.org/archives/news/articles/0/0/139.html>

TI-92 Plus Module Now Available

Posted on 20 June 1998, 02:00 GMT

The TI-92 Plus Module is now available in the U.S. directly from TI for \$75. It is also available at some instructional product dealers. Information about availability outside the U.S. is expected soon.

<http://www.ticalc.org/archives/news/articles/0/0/151.html>

Free TI-73 and TI-92 Plus FLASH Downloads

Posted on 4 August 1998, 22:27 GMT

Texas Instruments is now offering free FLASH downloads for their TI-73 and TI-92 Plus calculators. Only the initial release versions are available right now and are provided for users to practice installing them on their calculators.

<http://www.ticalc.org/archives/news/articles/0/0/398.html>

PlusShell Debuts

Posted on 11 August 1998, 17:12 GMT

With no Fargo port in sight, Rusty Wagner has released his own TI-92 Plus assembly shell, PlusShell v0.7 Alpha. This shell looks and feels like Fargo II. Included are ports of many Fargo II libraries. Assembly programs can be run directly from the TI-OS or from the browser included. Since the source of Fargo II programs need little modification to run on the TI-92 Plus, Rusty has already converted many games.

PlusShell Adds TI-89 Support

Posted on 18 September 1998, 22:05 GMT

Rusty Wagner has released PlusShell v0.99 Test Release 1 with TI-89 support, thus making it the first shell for the TI-89. This version is only intended for the TI-89, however it still works on the TI-92 Plus.

Doors Team to Make TI-89 Shell

Posted on 18 September 1998, 22:17 GMT

The Doors Team is currently developing Doors OS, a shell for the TI-89. It will include features such as:

- * Library management
- * BSS management
- * Advanced "Anti-Crash" system

A set of libraries will also be released and will cover such things as graphics, grayscale, line drawing, putsprite functions, file operation functions, password functions, and other common functions. A beta version will be available on this site in about two days.

<http://www.ticalc.org/archives/news/articles/0/2/2282.html>

TI releases Flash ROM upgrades for TI-73 and TI-92+

Posted on 24 October 1998, 01:31 GMT

Texas Instruments has released Flash ROM upgrades for the TI-73 and TI-92 Plus. If your TI-73 was built before 7 August 1998 or your TI-92 Plus was built before 5 August 1998, then you should get this update. The TI-73 update fixes some compatibility problems with the TI-Graph Link software while the TI-92 Plus update fixes a few minor bugs.

<http://www.ticalc.org/archives/news/articles/0/3/3557.html>

TI releases TI-89 Flash ROM for download Posted on 31 October 1998, 01:19 GMT

Texas Instruments has released the TI-89 Flash ROM for download. This is the initial release, version 1.0, which is already included in your TI-89 (if you purchased one).

<http://www.ticalc.org/archives/news/articles/0/3/3904.html>

Doors OS v1.0 and Doors Explorer v1.9 released

Posted on 13 February 1999, 23:34 GMT

The Doors Team has released Doors OS v1.0 for the TI-89 and TI-92 Plus, as well as Doors Explorer v1.9 for the TI-89 and TI-92 Plus. This new version of Doors OS mostly fixes bugs and is no longer in beta. Doors Explorer v1.9 fixes some bugs as well as adds a new setup screen, a new protection function, and a small help file. This should be the final release of both programs.

<http://www.ticalc.org/archives/news/articles/0/8/8093.html>

July 16 th 1999

Doors OS and Doors Explorer Final Version beta2 are released !

TxTRider v1.0b - Versatile Text Editor

Posted by Nick on 31 July 1999, 19:14 GMT

Marc Teyssier has created a versatile program, TxTRider v1.0b. It is similar to the text editor available on the 89 and 92+. It is also for the 89 and 92+, but it is a text viewer rather than an editor. It does, however, have many added features such as supporting pretty print, pictures, and different formats such as bold and underline.

<http://www.ticalc.org/archives/news/articles/1/13/13738.html>

Benoit Scherrer and Brian Tribondeau Release SolarStriker v0.11 Alpha

Posted by Nick on 16 October 1999, 18:47 GMT

<http://www.ticalc.org/archives/news/articles/1/17/17495.html>

Ti.Fr Releases Kernel for AMS v2.03

Posted by Nick on 10 December 1999, 23:43 GMT

KernelPreuvot directed me in an email to a kernel recently made by B. Lesteven. This kernel originally appeared on Ti.Fr and it should let two programs run well on the TI-89's new AMS versions 2.0x (Tetris and Phoenix). These updated programs are available for download from Ti.Fr's site.

<http://www.ticalc.org/archives/news/articles/2/22/22596.html>

DoorsOS II v0.9

Posted by Nick on 25 December 1999, 04:01 GMT

Xavier Vassor and Cedric Couffignal have released an upgrade to their fantastic new shell, DoorsOS. DoorsOS II v0.9 has been released for the 89 and the 92 Plus. This works on ALL ROM versions, including AMS v2.03! Hardware v2.00 calculators may still have problems, though

15 Janvier 2000

Universal OS 1.02 développé par Julien Muchembled

Supporte les HW1 et les HW2 sous ROM 1.05 (pas 2.03)

TI-GCC Library

Posted by Nick on 23 January 2000, 04:59 GMT

Zeljko Juric has released a gem of a file recently. This file, the TI-GCC Library, provides over three hundred new functions for the TI-GCC compiler by Niklas Brunlid, Xavier Vassor and Jean Canazzi. Extremely detailed HTML documentation is also provided, describing almost 250 TI-OS entries. This is perhaps the most extensive documentation of the 89/92+ to date. This will be an extremely helpful file for any assembly developer for the TI-89 or the TI-92 Plus.

<http://www.ticalc.org/archives/news/articles/2/25/25334.html>

Universal OS v1.10, Julien Muchembled Defeats HW2 Limit

Posted by Nick on 27 February 2000, 21:48 GMT

ticalc.org Passes 10,000 Files

Posted by Eric & Phil on 4 March 2000, 06:57 GMT

We're happy to announce that ticalc.org has amassed more than 10,000 files (specifically, 10,019). In addition to this, there are 4,574 screenshots, 235 of which are animated.

<http://www.ticalc.org/archives/news/articles/2/27/27911.html>

DoorsOS v0.95: Support For Everything!

Posted by Nick on 6 March 2000, 00:19 GMT

With that in mind, Xavier Vassor and Cedric Couffignal, the Doors Team, have released v0.95 of their toxically popular DoorsOS. This should work on all Hardware v2.00 calculators. A special version of graphlib now exists, and this version of Doors encompasses a lot of happy new bug fixes.

Virtual TI v2.5 Beta 5

Posted by Nick on 19 March 2000, 02:02 GMT

Rusty Wagner of ACZ has released Virtual TI v2.5 Beta 5. New features include bugfixes, support for AMS v2.0x, support for .89u and .92u backup files, and other changes to skin support.

<http://www.ticalc.org/archives/news/articles/2/29/29102.html>

TxtRider v1.0 Beta 96

Posted by Nick on 19 March 2000, 23:03 GMT

Marc Teysier has released a new version of TxtRider for both the 89 and the 92 Plus. The most important update to this version (v1.0 Beta 96) is the addition of a feature that will remember the last file opened. Also, images are now displayed properly. AMS v2.03 is also now supported, so I've heard.

<http://www.ticalc.org/archives/news/articles/2/29/29192.html>

<http://www.ticalc.org/archives/news/articles/3/30/30332.html>

There Are Too Many Programs Released This Week

Posted by Nick on 2 April 2000, 23:25 GMT

Don Barnes - or someone - uploaded his copy of Super Mario Quest v1.1.0

BigDyna v2.1 Beta (see screenshot), has been updated for the 89

MaxMem v1.00 can be downloaded from our archives for the 89 and the 92 Plus.

A bug has been fixed in HW2Patch that now enables one to patch their calculator indefinitely.

AS92, the famous on-calc ASM compiler, has been updated by Deep Brain Activity. It's now ported to AMS v2.03 and macros have been added.

eXor Releases Pang v1.0

Posted by Nick on 23 April 2000, 03:30 GMT

<http://www.ticalc.org/archives/news/articles/3/31/31807.html>

Zeljko Juric Releases TI-GCC Library v2.0

Posted by Nick on 27 May 2000, 16:37 GMT

<http://www.ticalc.org/archives/news/articles/3/34/34058.html>

Tanks v0.53, PANG v1.01, SolarStriker v1.00 Pre-Final

Posted by Nick on 29 May 2000, 02:39 GMT

Everybody's favorite game, SolarStriker v1.00 Pre-Final (for the 89, 92 [Fargo II], and 92 Plus), has been unleashed. Authored by Benoit Scherrer and Brian Tribondeau, new features for this piece of entertainment include much code optimization and (I think) link play (my French isn't very good *g*). Also, a source code release has taken place.

<http://www.ticalc.org/archives/news/articles/3/34/34178.html>

Turbo Breakout 68K, Flib v1.7

Posted by Nick on 1 June 2000, 23:35 GMT

Flavien Racine of BAPG has written a wonderful piece of grayscale, Turbo Breakout 68K, for the 89 and the 92 Plus. In four-color grayscale, this program features customizable levels and it looks really really really good (see screenshot), but it's prone to crashing on just about everything. You have been warned.

<http://www.ticalc.org/archives/news/articles/3/34/34318.html>

Julien Muchembled Releases HW2Patch v2.10

Posted by Nick on 14 June 2000, 19:23 GMT

Julien Muchembled has released HW2Patch v2.10 for the 89 and the 92 Plus. This supresses the 8/24 Kb limitation by TI. It now works on all AMS versions; including 2.01, 2.03 and the new 2.04.

<http://www.ticalc.org/archives/news/articles/3/35/35689.html>

MaxMem, TurboBreakOut, SolarStriker, and a Partridge in a Pear Tree

Posted by Nick on 26 June 2000, 03:09 GMT

Benoit Scherrer and Brian Tribondeau have released this program - I think it's called "SolarStriker"

TI-GCC v0.7

Posted by Nick on 30 June 2000, 04:27 GMT

<http://www.ticalc.org/archives/news/articles/3/36/36807.html>

TI Releases AMS 2.05 and Other FLASH Applications

Posted by Eric on 25 July 2000, 18:55 GMT

Michael Michaelson sends the news that TI has released AMS 2.05 for the TI-89 and TI-92+. This new rom version apparently fixes some memory bugs while viewing locked or archived programs.

<http://www.ticalc.org/archives/news/articles/3/38/38694.html>

TI-Chess v3.00

Posted by Nick on 12 August 2000, 03:22 GMT

<http://www.ticalc.org/archives/news/articles/3/39/39597.html>

WORMHOLE Passes On

Posted by Phil on 9 September 2000, 23:27 GMT

TI-News and several other sites are reporting the tragic death of WORMHOLE, a programmer who was well known for his research into flash protection on the 68k calcs, passed away in a car crash on August 26th. You can see the "official" pronouncement on his web page.

He will be missed.

<http://www.ticalc.org/archives/news/articles/4/40/40790.html>

TIGCC v0.8 Released

Posted by Eric on 13 October 2000, 01:33 GMT

Since we haven't had much activity lately, I thought it fitting to post on some Relatively Big News today. The TIGCC Team, which includes such illustrious programmers as Jean Canazzi, Sebastian Reichelt, Xavier Vassor, and Zeljko Juric, have released TIGCC v0.8. For this version, TIGCC has been completely patched and recompiled from scratch. Version 0.8 also includes several major updates to the IDE. You can download TIGCC v0.8 here.

<http://www.ticalc.org/archives/news/articles/4/42/42085.html>

Universal OS v1.14 Released

Posted by Eric on 22 October 2000, 01:56 GMT

Anyway, Julien Muchembled has released Universal OS v1.14. This kernel is fully compatible with DoorsOS II v0.98 and contains a few bugfixes. Get it here. Julien has also released other goodies such as MaxMem v2.11 and HW2Patch v2.21.

<http://www.ticalc.org/archives/news/articles/4/42/42270.html>

TI Releases Beta of TI-89/92+ SDK

Posted by Eric on 9 November 2000, 22:22 GMT

Welp, the long-awaited 68K Beta SDK is (almost) here. Colin Squier was the first of many to send in a link to the registration page for TI's new TI-89/92+ SDK, which was supposed to have come out last month. There you can register and download the TI FLASH Studio, which is approximately six megabytes large. Find more information at the above link.

<http://www.ticalc.org/archives/news/articles/4/43/43266.html>

TIGCC v0.9 Released

Posted by Eric on 19 December 2000, 07:33 GMT

The hard-working TIGCC team, led by Sebastian Reichelt and Zeljko Juric, have released the new version of TIGCC, their popular SDK for the TI-89 and TI-92+.

<http://www.ticalc.org/archives/news/articles/4/44/44589.html>

Alien Invasion Released by Jason Ho

Posted by Eric on 5 February 2001, 00:36 GMT

So here it is: Alien Invasion, by heretofore unheralded Jason Ho. Alien Invasion is a shooting game for the TI-89 that's similar to others such as Phoenix. It features animation that runs at up to 70fps and contains the usual assortment of weapons, special items, and upgrades. Mad props to Jason for his accomplishment.

<http://www.ticalc.org/archives/news/articles/4/46/46191.html>

ticalc.org Reaches 15,000 Files

Posted by Phil on 6 February 2001, 02:04 GMT

<http://www.ticalc.org/archives/news/articles/4/46/46233.html>

TICT-Explorer v1.0 Released

Posted by Eric on 11 February 2001, 20:33 GMT

TICT-Explorer v1.0 Thomas Nussbaumer has released the first version of TICT-Explorer. (français, anglais, allemand)

<http://www.ticalc.org/archives/news/articles/4/46/46492.html>

FAT-Engine Demo Released

Posted by Eric on 25 February 2001, 23:11 GMT

FAT-Engine Demo v0.10 Thomas Nussbaumer, busy as ever, has embarked on a new project: the FAT-Engine (umm, in case you're wondering, "FAT" stands for Fixed Angle Texturing)! It's a generic 3D raycasting engine for games, and allows for 10-20 fps display. Obviously this could prove useful for programmers of first-person games. Thomas has released a simple demo of the engine, which can be found here for the TI-89 and here for the TI-92+.

<http://www.ticalc.org/archives/news/articles/4/46/46975.html>

TIGCC v0.91 Released

Posted by Eric on 25 March 2001, 23:31 GMT

<http://www.ticalc.org/archives/news/articles/4/48/48051.html>

UniversalOS v1.30 Released

Posted by Eric on 3 May 2001, 03:13 GMT

<http://www.ticalc.org/archives/news/articles/4/49/49697.html>

GtkTiEmu Released

Posted by Eric on 23 May 2001, 01:42 GMT

Romain Liévin, of TiLP fame, and Thomas Corvazier, of Street Figher 89 fame, have teamed up to bring you....(drumroll, please) TiLP Fighter! Wait, no, let's try that again.....GtkTiEmu! This is a fast TI-89/92/92+ multi-platform emulator. It features an easy-to-use GTK+ GUI, full linkport emulation, a nice debugger, and more.

<http://www.ticalc.org/archives/news/articles/5/50/50352.html>

Java on TI-89/92+?

Posted by Eric on 6 June 2001, 21:27 GMT

Well, we've got BASIC, assembly, and C so far, so why not Java? Stephan Effelsberg has undertaken the challenge to port the Waba Virtual Machine to TI calculators. He's released a very preliminary beta for the TI-89 and TI-92+. Development is still in progress, but it's already able to run nifty programs like Scribble.

<http://www.ticalc.org/archives/news/articles/5/50/50789.html>

BomberMaze68k v1.00 Final Released

Posted by Eric on 27 August 2001, 18:55 GMT

Bombberman extraordinaire Flavien Racine has released the final version of his popular Bombberman clone, BomberMaze68k v1.00, for the TI-89 and TI-92+. BomberMaze is now a no-stub program, so you won't be needing a shell anymore. In addition, Flavien is working on yet another Bombberman, called FlashZ Bombberman, that will be released in the next few days. Update to follow.

<http://www.ticalc.org/archives/news/articles/5/52/52619.html>

KerNO Released

Posted by Eric on 4 November 2001, 04:57 GMT

Believe it or not, stuff is getting released nowadays, even with our archives down. Greg Dietsche has released KerNO, a kernel for the TI-89 designed expressly for nostub programs.

<http://www.ticalc.org/archives/news/articles/5/54/54300.html>

TI-89/TI-92+ SDK 1.0 Released

Posted by Eric on 14 January 2002, 21:48 GMT

TI has released the first official (non-beta) version of their TI-89/TI-92+ SDK.

<http://www.ticalc.org/archives/news/articles/5/57/57371.html>

TIGCC v0.93 Released

Posted by Eric on 5 February 2002, 09:54 GMT

<http://www.ticalc.org/archives/news/articles/5/58/58260.html>

ti-cas.org Shutting Down

Posted by Eric on 19 February 2002, 22:28 GMT

This is a bit of old news, but I think it's worth mentioning that ti-cas.org, headed by Olivier Miclo, is shutting down due to conflicts with the French division of Texas Instruments.

<http://www.ticalc.org/archives/news/articles/5/58/58819.html>

One Million for Patrick Davidson

Posted by Eric on 5 May 2002, 01:01 GMT

We're happy to announce that Patrick Davidson, #2 on our list of busiest authors, has passed the six-digit mark in total downloads. With 1,001,456 all-time downloads, Patrick is well in the lead as our most-downloaded author. Congratulations, and thanks for sucking up so much of our bandwidth :)!

<http://www.ticalc.org/archives/news/articles/6/63/63150.html>

TI-Chess v4.00 released

Posted by Niklas on 11 November 2002, 16:31 GMT

<http://www.ticalc.org/archives/news/articles/7/74/74752.html>

TI Connect v1.2

Posted by Michael on 19 February 2003, 04:22 GMT

Texas Instruments has released TI Connect v1.2. Although it adds minor features such as enhanced calculator operating system installation and app upgrading, the major update is that the USB cable now works on Windows XP! That incompatibility has been a source of complaints in the TI Discussion Groups for some time.

<http://www.ticalc.org/archives/news/articles/8/80/80387.html>

TI Founder Dies

Posted by Michael on 18 April 2003, 01:11 GMT

Cecil Green, a founder of Texas Instruments, died last week at age 102. In addition to his activities at TI, he was extremely involved in using his money to further education throughout the world. TI has issued a press release.

<http://www.ticalc.org/archives/news/articles/8/87/87212.html>

AMS 2.09 Semi-Released

Posted by Joey on 20 May 2003, 00:32 GMT

TI has released AMS 2.09 for the TI-89, TI-92+, and Voyage 200. The only catch is that you must download the newest version of TI Connect to get it.

<http://www.ticalc.org/archives/news/articles/8/89/89665.html>

PreOS v0.67, File Number 30,000

Posted by Michael on 25 July 2003, 01:36 GMT

We are pleased to announce that the 30,000th file was just added to our archives: PreOS v0.67 by Patrick Pelissier. For those who don't already know, PreOS is a kernel for the 89/92+/Voyage 200 that is compatible with all ROM versions (including 2.09) and both HW1 & HW2. This is the most recently updated kernel available for the 68k calcs.

<http://www.ticalc.org/archives/news/articles/9/93/93228.html>

Space Dementia II

Posted by Michael on 4 September 2003, 04:41 GMT

Thibaut Chevalier has released a successor to his popular space shooter, Space Dementia. This new multiplayer version, Space Dementia II, features even more breathtaking 3-D graphics as you battle in space with another 89, 92+, or Voyage 200. The game (which is open source) runs on his FlatSpin engine, providing the real-time 3-D graphics.

<http://www.ticalc.org/archives/news/articles/9/94/94899.html>

Aerial Assault Released

Posted by Michael on 3 November 2003, 23:19 GMT

Vincent Corfdir has released a game for the TI-89 called Aerial Assault. This side-scroller starts out simply enough by shooting at a few airplanes, but soon your hands are full as there are obstacles in the air and below.

<http://www.ticalc.org/archives/news/articles/9/97/97093.html>

<http://www.ticalc.org/archives/files/fileinfo/312/31229.html>

Ice Hockey 68k Released

Posted by Michael on 5 December 2003, 13:39 GMT

Travis Fischer has released an incredible game for the 89/92+/Voyage 200, Ice Hockey 68k. This full-featured game has exhibition, tournament, shoot-out, and practice play among 31 NHL teams. It is player versus calculator, calculator versus calculator, or player versus player in linked multiplayer mode. There are slew of other details to this game that enhance the realism, such as different player types. Face-off!

<http://www.ticalc.org/archives/news/articles/9/98/98368.html>

<http://www.ticalc.org/archives/files/fileinfo/318/31834.html>

PedroM 68k OS Released

Posted by Michael on 10 December 2003, 23:21 GMT

Patrick Pelissier, author of PreOS and other fine 68k programs, has written the first third-party operating system for the 68k calcs. The open-source PedroM looks like a Unix shell, has task switching and a much smaller size (only 192 KB). It is designed to be compatible with the AMS 1.xx series.

In order to include this OS in our archives, we have added categories for TI-89 Operating Systems, TI-92 Plus Operating Systems, and Voyage 200 Operating Systems.

<http://www.ticalc.org/archives/news/articles/9/98/98746.html>

<http://www.ticalc.org/archives/files/fileinfo/319/31951.html>

Kirby TI Land for 68k Calcs

Posted by Michael on 14 December 2003, 21:35 GMT

Six days ago, a really great game was uploaded: Kirby TI Land v1.0. This version of the popular game has 15 levels and 40 monsters, with transformations like power lightning. It is for the 89, 92+, and Voyage 200, with both kernel and nostub versions.

<http://www.ticalc.org/archives/news/articles/9/99/99142.html>

<http://www.ticalc.org/archives/files/fileinfo/319/31905.html>

Nebulus for the 89

Posted by Michael on 20 June 2004, 18:09 GMT

The classic ATARI/Amiga/C64/DOS game of Nebulus has been created for the 89/92+/V200. This scroller features the story of Pogo, a demolition worker who must destroy ocean-harming towers. Sound (through the link port) is an optional nice touch. As shown in the screenshot to the right, the graphics seem well implemented.

<http://www.ticalc.org/archives/news/articles/11/112/112855.html>

<http://www.ticalc.org/archives/files/fileinfo/344/34493.html>

TI Connect v1.5 Released

Posted by Michael on 17 August 2004, 16:39 GMT

TI has released version 1.5 of their TI Connect software for Windows. This version is a normal release and has been updated since the beta version that was included with 84+ and 89 Titanium calculators.

<http://www.ticalc.org/archives/news/articles/11/115/115739.html>

TI-89 Titanium Compatibility Improves

Posted by Michael on 22 August 2004, 03:04 GMT

Since the release of the 89 Titanium, there have been many reports of incompatibilities with existing assembly programs. Hopefully some of these will be now alleviated, as a number of key fixes have been released. Kevin Kofler's 89 homepage contains links to many programs that operate properly on the Titanium, including his own HW3Patch that will patch the AMS so as to allow certain types of programs to function correctly. For kernel aficionados, Iceberg v1.00 is a port of PreOS v0.67 to the Titanium.

<http://www.ticalc.org/archives/news/articles/11/116/116083.html>

HW3Patch : <http://members.chello.at/gerhard.kofler/kevin/ti89prog/hw3patch.zip>

iceberg : <http://members.chello.at/gerhard.kofler/kevin/ti89prog/iceberg.zip>

PreOS v0.70 Released

Posted by Michael on 4 September 2004, 15:44 GMT

Patrick Pelissier has released PreOS v0.70, his kernel for the 89, 92+, and V200. Version 0.70 is fully compatible with the TI-89 Titanium, and runs on all AMS versions and all hardware versions. The grayscale library now works on all hardware versions as well. All kernel programs should now run on the Titanium without patching.

<http://www.ticalc.org/archives/news/articles/11/117/117287.html>

TIGCC v0.95 Released

Posted by Michael on 27 October 2004, 18:49 GMT

The final version (after twenty betas) of TIGCC v0.95 has been released

<http://www.ticalc.org/archives/news/articles/12/120/120300.html>

2004 POTY Results

Posted by Michael on 10 January 2005, 15:49 GMT

We have tabulated the votes for the 2004 Program of the Year award.

<http://www.ticalc.org/archives/news/articles/12/123/123070.html>

<http://www.ticalc.org/community/awards/poty/2004.html>

Bomber Dude : <http://www.ticalc.org/archives/files/fileinfo/357/35795.html> (1er ti68k)

TI Releases AMS 3.01

Posted by Michael on 16 February 2005, 13:46 GMT

TI has released AMS 3.01. You can find versions for the 89 Titanium and the Voyage 200. Version 3.01 "optimizes battery performance for use with the TI-89 Titanium Presentation Link Adapter."

<http://www.ticalc.org/archives/news/articles/12/124/124461.html>

Xpand v0.2a Released

Posted by Michael on 24 February 2005, 03:22 GMT

Olivier Armand has updated his Xpand archive memory expander to work with the newly released AMS 3.01 for the Voyage 200. Use of this program adds nearly one megabyte of available archive space. Of course, this does not actually create memory but instead allows archived variables into space normally reserved only for flash applications.

<http://www.ticalc.org/archives/news/articles/12/124/124847.html>

<http://www.ticalc.org/archives/files/fileinfo/307/30717.html>

Quelques exemples de programmes

A présent, je vais vous présenter une liste de quelques programmes que je considère comme démontrant au mieux les capacités de nos machines, ou qui, à l'usage, sont devenus des références. Certains de ces programmes peuvent actuellement être complètement dépassés, voire même ne pas fonctionner sur les modèles de calculatrices les plus récents... Après tout, n'oublions pas que la première TI basée sur un M68k a vu le jour il y a 10 ans !

D'autre part, je me permettrais d'insister encore une fois sur le fait qu'il s'agit ici d'une sélection que j'ai moi-même effectué parmi la multitude de programmes que l'on trouve sur divers sites internet. Un autre que moi en aurait probablement choisi d'autres, ou n'aurait pas choisi certains que j'ai retenu.

Pour chaque programme, je prendrai le soin, lorsque cela sera possible, de préciser son auteur, ainsi qu'un lien menant à sa fiche sur ticalc.org, ou ailleurs.

Programmes utilitaires :

[preOS, UniversalOS, DoorsOS, Prosit](#)
[Ebookreader](#)
[Hibview](#)
[Integrated Desktop](#)
[tibreceiver](#)
[tict-explorer 1.30 beta 9](#)
[uview](#)
[waba virtual machine v0.1](#)
[AS92](#)
[Archive Utility 3.0](#)
[PCT 0.74B](#)
[txtrider](#)
[Complete \(Adds Auto Completion\) Titanium Compatible](#)
[TICT eBook-Reader v2.06](#)
[HW2Patch v2.30](#)
[PreOS 0.71](#)

Jeux nostub :

[BomberMaze68k v1.00 Final](#)
[Space Dementia v0.71](#)
[Duke 68k v1.02 \(89, 92+, V200\)](#)
[ExciteBike 68k v0.64](#)
[TEXAS Fighters v0.1](#)
[Ice Hockey 68k v2.71](#)
[Platinum Edition 1.2 for TI-92 Plus and Voyage 200](#)
[SkyRacer 0.55b \(89/89T/92+/v200\) ???](#)
[TI-Chess v4.11](#)
[Queue v0.9](#)
[Alien Invasion v1.5](#)

Jeux kernel :

[Bigdyna](#)
[BomberMaze68k v0.95](#)
[MegaCar v2.5 \[HW1 and HW2\]](#)
[Street Fighter II v0.18 Beta](#)
[SMA v0.41](#)

10 ans de TI-68k !

[SolarStriker v1.00 Final](#)

[Super Mario Quest v1.1.0](#)

[TurboBreakOut68k v2.10 Final](#)

Sites majeurs en relation avec les ti68k, à travers les âges

Parler un peu des différents sites ?
ti-fr.org, ti-rex, graphiti, tigen, ti-fr.com, ticalc, tiworld,...

Vapeur, quand tu nous tiens

Quelques mots sur ce qu'est la vapeur, ce que sont les vaporware.
Des projets irréalisables ? JAVA, OS, Compilateur C on-calc, ...
Quelques exemples de grands vaporwares : GTC, ...
Quand le rêve devient réalité ? PedRom, ...

A titre d'information, pour montrer que, déjà en 1998, certains pensaient à la sortie d'un OS alternatif :
Building OSs for Flash ROM Calculators
Posted on 6 September 1998
<http://www.ticalc.org/community/articles/15.html>

Parler du début d'OS de WH... faisait pas grand chose, mais a montré, sur VTI, que ct "possible"...
Mais il a fallu attendre PedRom pour avoir quelque chose de jouable. Il a eu d'autres essais ; me souviens d'un projet de cerveau mathématique, me semble, sur le forum TICT ; me demande si JM avait pas bossé sur un truc de ce genre, aussi... [LiteOS](#).

Divers (à classer)

[Forum O2](#)
[LiteOS](#)
[Site de la DBA](#)
[Calcux](#)
[Possible de faire un OS \(TICT forum\)](#)
[Un vieux topic sur WH](#)
[Kevin incitant les gens du forum TICT à voter nostub contre le kernel sur yN \(pas vraiment à sa place dans ce document, cela dit :D\)](#)

Quatre générations de programmeurs

Je me souviens, lors d'un des premiers Open Lyonnais (Cf [la page Evénements de mon site](#)), que j'ai eu l'occasion de discuter de la communauté avec PpHd, membre de la [TimeToTeam](#), auteur de grands programmes tels Chrono Fantasy, SMA, ou encore PreOS.

De cette conversation, il est ressorti que l'on pouvait compter quatre "générations" de programmeurs sur plate-formes TI-68k.

Cette partie de notre article va me permettre de brièvement les présenter.

Première génération

Seconde génération

Troisième génération

Quatrième génération

Sources

<http://www.ticalc.org/basics/calculators/ti-92.html>
<http://education.ti.com/us/product/tech/92/features/features.html>
<http://www.ticalc.org/basics/calculators/ti-92plus.html>
<http://education.ti.com/us/product/tech/92p/features/features.html>
<http://www.ticalc.org/basics/calculators/ti-89.html>
<http://education.ti.com/us/product/tech/89/features/features.html>
<http://www.ticalc.org/basics/calculators/v200.html>
<http://education.ti.com/us/product/tech/89/features/features.html>
<http://www.ticalc.org/basics/calculators/ti-89-ti.html>
<http://education.ti.com/us/product/tech/89ti/features/features.html>
[Interview de DAVID ELLSWORTH \(newsletter de juillet 2000\)](#)
[Annonce de la sortie de la TI-92](#)
[Archive des news de ticalc](#)
[TiWiki](#)

Remerciements

Je tiens à remercier un grand nombre de personnes, soit pour l'aide qu'ils m'ont apporté au cours de la rédaction de cet article, soit pour tout ce qu'ils ont fait pour la communauté ; dans le désordre :

- Les auteurs des sources citées ci-dessus