

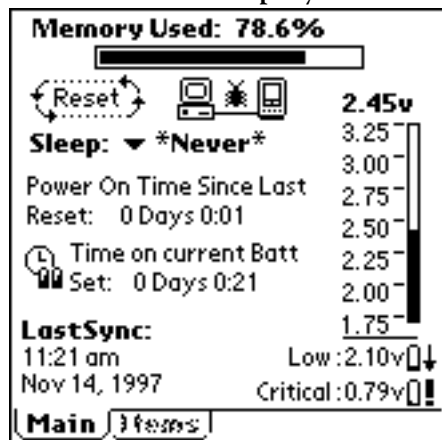
# FPS Utility Pro

## Version 3.0

For the 3Com PalmPilot & IBM WorkPad

A product of Fighter Pilot Software, LLC, presented as try-before-you-buy ware.

### Main Display



### List Display

List View	# of Items: 89	
Name:	Cr8r	Type
System	psys	rsrc
AMX	psys	krnl
UIAppShell	psys	uish
PADHTAL Library	hpad	htal
Net Library	netl	libr
PPP NetIF	ppp_	neti
SLIP NetIF	slip	neti
Loopback NetIF	loop	neti
Network	netw	panl
Address Book	addr	

Navigation buttons: Top, Bottom, PG▲, PG▼, and a list icon. At the bottom are 'Main' and 'Items' buttons.

### Detail Display

**FPSUTIL3**  
**Creator:** FPU3    **Type:** appl

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**Backup Bit:** ☒

Creation Date: **11/14/97 8:44 pm**  
Mod. Date: **11/14/97 8:42 pm**  
Total Records: **50**  
Total size (bytes): **30459 / 29K**  
Total data (bytes): **29375 / 28K**  
Version: **3**

Buttons: Commit Changes, Delete, Export, and a scroll arrow.

Navigation buttons: Main, Items, and Detail.

FPS Utility Pro 3.0 is the all purpose utility for the 3COM PalmPilot and IBM WorkPad PDA's.

At the time of release (December 1997) it is compatible with ALL current models and operating systems (Palm OS v 1.0 & 2.0).

### FPS Utility Pro Provides the following:

- (1) A soft reset button (replaces the paper clip in the back)
- (2) A Debugger Button, opens the serial port for the programmer for debugging. (replaces the need to write a shortcut..2)
- (3) Let's an end user select between a wide range of Auto-Sleep times (from 1 minute through 5 minutes and 'never').
- (4) Displays Battery information including:
  - A digital voltage display.
  - An accurate graph.
  - Low warning threshold, and Critical threshold.

- (5) Shows a running count of time since last reset
- (6) Battery Life, lets the user track how long his/her batteries last.
- (7) Displays the last HotSync date
- (8) A faster Memory Display than the memory control panel.

*(Some of these items are available on the device itself, FPS Utility Pro provides a single point of reference for all this information)*

### Advanced Features

#### List Display

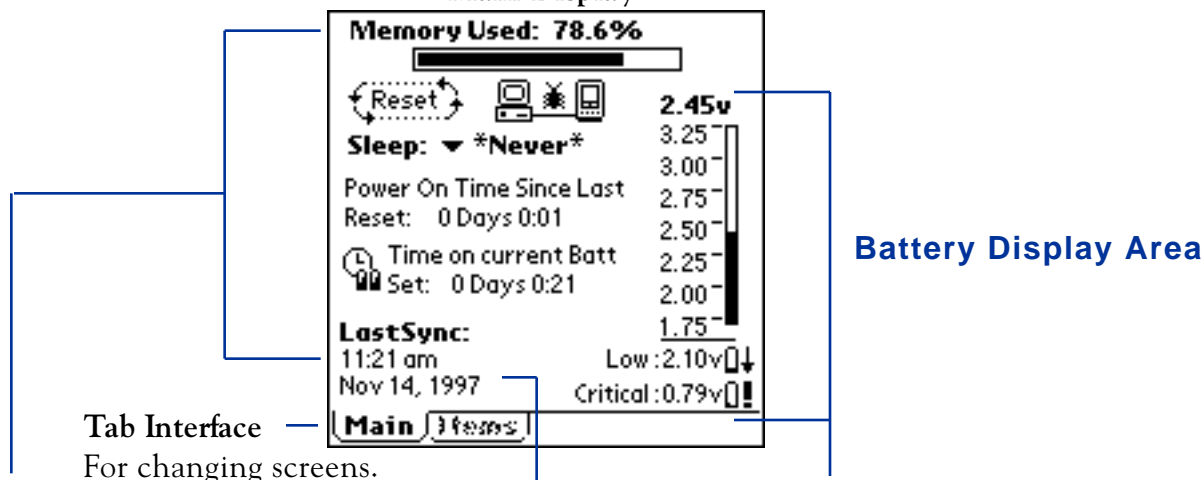
FPS Utility Pro provides a list view of all 'items' on your handheld. Items are applications, databases, patches, etc. The list display provides you with a unique view of these items. There are 2 user definable columns. You choose what information is displayed in the list, including backup-bit information. From the list view you can manage the backup bits. For more information see the Backup Section

#### Detail Display

Each item can be viewed in 'detail' and, if registered, FPS Utility Pro can be used to edit some of these values (name, type, creator, delete individual items, export information to memo pad). For more information see the Detail section.

## Main Display in Detail

### Main Display

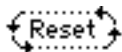


Memory Used: 78.6%

Memory Used: 805K of 1024K

### Memory Display

The memory display is a graphical and text representation of the storage space utilization of your device. Tap the 'Memory Used' label to toggle between the % display and the raw usage display. (The default display is wettable in the display preferences.)



### Reset Button

The Pilot has (4) reboot modes:

(1) Simple Warm Boot (tapping the button):

Same as pushing a paper clip in the small hole in the back with out pushing any buttons.

(2) HARD Boot

Reset while holding the green power button down. The pilot will be erased and reset to the out of the box condition.

(3) Extensions Off

Not it's real name, but close enough. Reboot and hold the "up" button on the front of the unit. The System will load but will not notify any applications or load any patches or updates. Good for disabling hackmaster and other patches for deletion.

(4) Debugger Mode

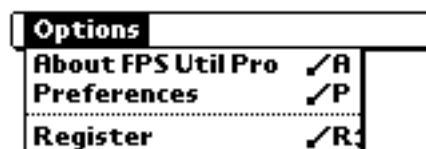
Reboot and hold the bottom "down" button. The device will enter the debugger mode (small square will flash in the upper left corner).

### Battery Display Area

The battery display is updated approx every 2 seconds and shows the voltage in 1/100th of a volt. The Low voltage indicator shows when you'll get your first warning that your batteries need to be replaced. (The operating system adjusts this value from time to time, we do not adjust this value). The Critical voltage is the level at which the device will shut down and refuse to power up until the batteries are replaced. Keep in mind the current models do not have a backup battery. It is not advised to run your hand held at this level.

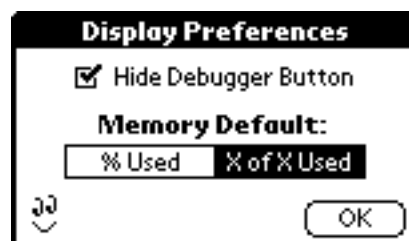
### Last HotSync Date

This is the date of the last successful HotSync (same as displayed in the HotSync application).



### Menus

Menus provide access to the 'About' box, display 'Preferences' and 'Registration' screen.



### Display Preferences

Accessed from the preference menu. Allows you do define the default display of the memory graph and hide the Debugger button.

Power On Time Since Last  
Reset: 0 Days 0:06

## Power On Time Display

The time (in days, hours:minutes) your device has been powered on since the last reset. (The reset, also zeros out this counter.) This timer is not advanced while the device is in sleep or suspend mode.



## Debugger Button

Opens the serial port to allow use of the debugger.  
WARNING: This will drain your batteries quickly and prevent HotSyncs from taking place. If you're not a developer hide this button with the display preferences. If you do invoke the serial connection a simple reboot will close it.

Sleep: ▼ 3-Minutes



## Setting the Auto-Sleep Time

By default, the Palm OS only lets you set a sleep time of 1-2 or 3 minutes (in the Preferences application). FPS Utility Pro gives you additional options of 4 and 5 minutes. \* Never \* means never. Your device will stay alive and powered on until the batteries go dead. Be careful using this and remember to choose a more sensible time when finished. We often set our devices to \* Never \* during long debugging sessions, trade shows, etc. The settings are persistent until changed by FPS Utility Pro or another application (Preferences).

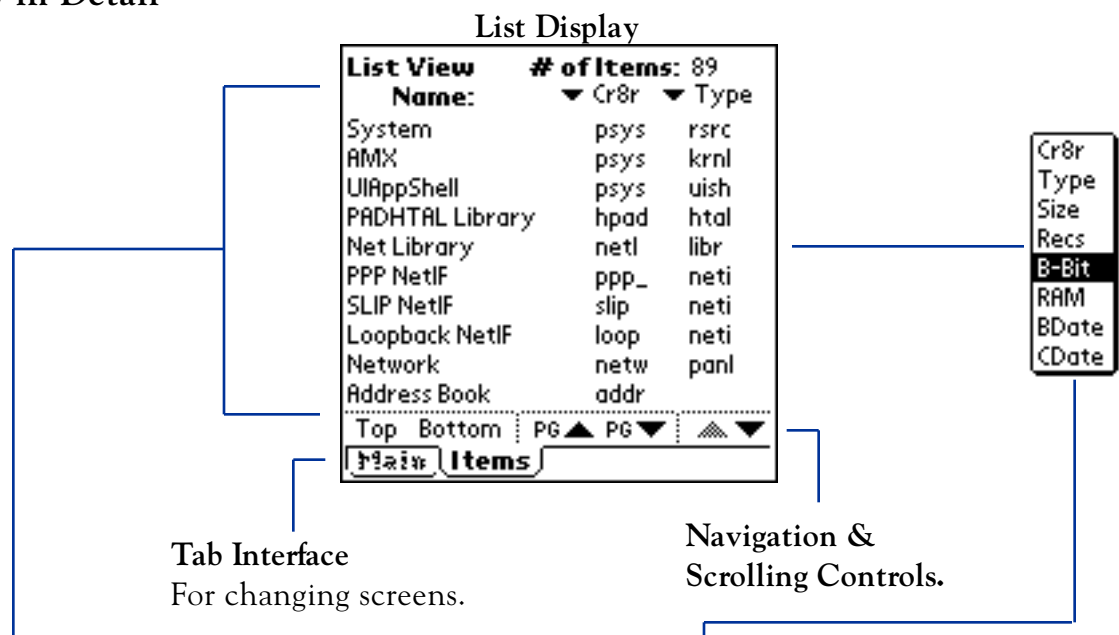
Time on current Batt  
Set: 0 Days 0:21

## Keeping Track of Battery Life

The first time you run FPS Utility Pro, an internal counter is started. This counter is used to keep track of the life of your batteries. Tap the clock/battery icon to reset the timer. Battery time is displayed as days, hours:minutes. This includes sleep time as well as powered on time.



# List Display in Detail



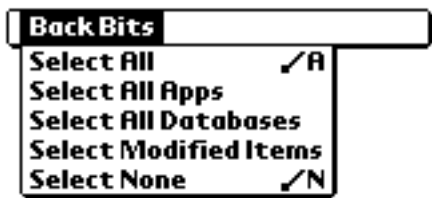
## The List Display

The list display shows all items on your device both in ROM and in RAM. The list is in the order the items are/were in stalled.

The far right scroll arrows scroll one item at a time. The others page up and down. The far left buttons 'Top' and 'Bottom' take you directly to the top of bottom or the list.

The two right columns display information that you select.

Tap an item's name to view the detail information about the item. From there, if registered, you can edit select attributes.



## Setting Backup-Bits Globally

The list view includes a menu for 'toggling' backup bits on the device based upon certain criteria.

- Select All turns on 'all' possible backup bits.
- Select All Apps sets the backup bits on all items of type 'appl' to on, turns everything else off.
- Select All Databases is the opposite of Select All.
- Select Modified Items selects all items who's modification date is later than the last HotSync date.
- Select None turns all backup bits off.

## User Selectable Columns

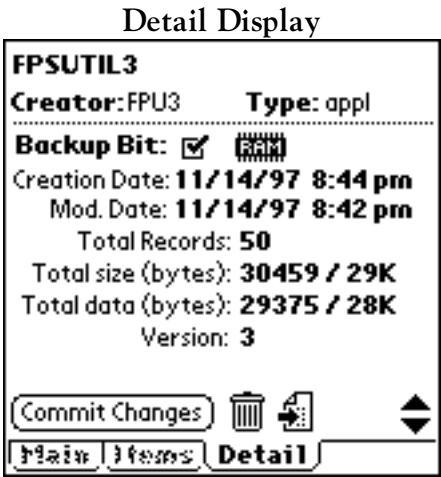
The right two columns display the information indicated by the pop-ups directly above them.

The options are:

- Cr8r** = Creator, a four character string that identifies the owner of the item. It's creator.
- Type** = Type, a four character string that identifies the type. Commonly applications are 'appl', databases are commonly 'data', but the author could use anything he/she sees fit.
- The Type and creator are what associates a database to an application. The built in Memory Control panel of the PalmOS lumps all records and size under the applications of the particular type.
- Size** = size of item, rounded for display to (k) kilobytes.
- Recs** = Number of records. Number of data records for a database, not sure what this refers to if an application.
- B-Bit** = Backup Bit Status, displays ON if backup bit is set, OFF if backup bit is not set. (For more information see Backups Explained.)
- RAM** = RAM/ROM, displays items location, either RAM or ROM.
- BDate** = Backup Date (month/day). The date of the last HotSync backup. Displays -/- when no backup date exists.
- CDate** = Creation Date (month/day). The creation date of the item.

CDate = Creation Date (month/day). The creation date of the item.

## Detail Display in Detail



### Detail Display

The detail display shows you all items on one screen. Additionally, you can manually toggle the backup bit status with the check box. Checked = ON. Changing the status of the backup bit does not require the use of the 'Commit Changes' button. If the item is in ROM the backup bit cannot be changed.

#### FPSUTIL3

**Creator:**FPU3      **Type:** appl

If registered, FPS Utility Pro allows you to modify the items above the line. Specifically, the Name, type and creator of an item.

To do so, select the appropriate field, and edit using graffiti of the built in keyboard. Select the 'Commit Changes' button to apply the changes.

### NOTES & WARNINGS

Changing the Name/Type/Creator of an item can cause unwanted unpredictable results.

Why would you want to do this ?

The Palm OS relates things by creator. As an example, GolfTracs creator is 'FPGT' the databases also have the creator 'FPGT'. This being the case, the memory control panel shows the size and record count of both GolfTrac the application and GolfTracs databases. If you delete the GolfTrac application, the databases (linked by 'creator') are also deleted. If you needed to delete the application only and retain the databases you could 'temporarily' change their creator. Just remember to put it back.



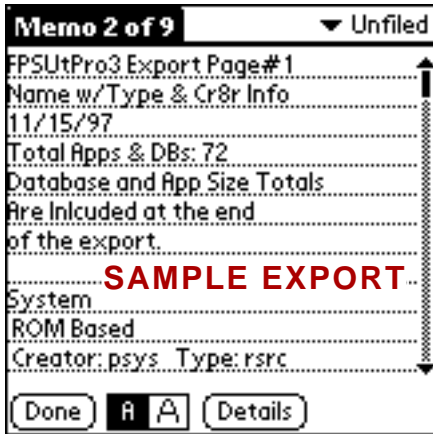
### Delete and Export

Registered users can delete individual items (databases, patches, system upgrades, etc.). Items that the Palm OS does not ordinarily let you delete.

To delete some items you may need to restart your device with Extensions off (see the Reset Button).



Exporting an item, or list of items creates a memo in the 'Unfiled' category in the Memo Pad Database with the items you've selected.



## Backup Information

The PalmPilot (IBM WorkPad) is the coolest handheld unit on the face of the earth, no question.

What happens when you Sync ? How do backups take place ?

When you 'Synchronize' your Pilot, HotSync synchronizes data for applications it has a conduit for. A conduit is the application that performs data translation and synchronization. The four built in application have a conduit supplied by the manufacturer to synchronize the notes, calender, to-do list and address book with their desktop application. Other 3rd party applications also include conduits (Hourz by Zoskware is one example). Once all the conduits have run and synchronized the data they are responsible for, HotSync runs a generic 'Backup' conduit.

This backup conduit runs through all the data items on the device (apps included) and looks to see if they have their backup bit selected. If so, it copies that item to your backup directory.

If you chose the default installation during setup you'll find this backup directory:

c:\pilot\'UserName'\backup\  
for example my backup directory is: c:\pilot\mdisher\backup\

There are a remarkable number of applications that do not have their backup bit selected, thus they do not get backed up. Similarly, a lot of developers do not set this backup bit, either by design or by oversight.

If every item has its backup bit selected, HotSyncs take a very long time. It's not efficient for this to be the case. Applications generally don't change, so backing them up once is usually enough. FPS Utility gives the ability to change backup bits, both individually and through preset selections.

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### FPS Utility Pro 3.0

can be registered electronically on the web:  
Exclusively at: PilotGearHQ  
visit: <http://www.pilotgear.com>

Or directly with Fighter Pilot Software, LLC

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