



## JackSprat 3.1 User Guide

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## About JackSprat

**JackSprat** allows owners of PalmOS handhelds the ability to remove built-in applications, demos, extra features and unused languages, freeing up extra space in Flash. This allows you to maximize Flash space for storing other applications with **JackFlash**. For example, on m500/m505 handhelds it is possible to access up to 2.8M of flash. Some devices will have more, others will have less.

Using **JackSprat** consists of following operations:

- making a copy of your ROM
- removing extra applications, demos or features
- removing extras languages (if necessary)
- (optional) restoring your Palm to its original state

## Launching JackSprat

Under OS3 and OS4 **JackSprat** needs to reset the device before it can be used. Launching **JackSprat** will bring a Reset dialog. Tapping Reset will reset the device and then automatically start the application.

On OS5, **JackSprat** will start normally.

## Using JackSprat

### Step 1: Make a Copy of your ROM

You must back up your existing ROM before removing the other languages to provide you with a way of restoring your Palm to its original state. The ROM can be backed up to your computer via HotSync or backed up to an expansion card, if you have one available.

### Backing Up the ROM via HotSync (OS 3 and OS 4 ONLY)

1. Launch **JackSprat** and tap BACKUP ROM.
2. If you have an expansion card, you will need to choose to backup via HotSync. Tap HotSync.
3. Tap PROCEED.
4. Tap OK to the dialog warning you to create a new HotSync name on your PC.
5. Place your handheld into the HotSync cradle and press the HotSync button on the cradle to begin copying the ROM. A dialog appears, prompting you to enter a new HotSync name.
6. Enter a unique, descriptive name. For example, "m505 ROMBackup".

7. Press OK to the HotSync dialog. The HotSync operation will proceed.
8. Once the HotSync completes, exit the HotSync application on your Palm.

### Backing Up the ROM to an Expansion Card (OS 4 and OS 5 ONLY)

1. Launch **JackSprat** and tap BACKUP ROM.
2. Tap Card.
3. Tap OK to start the backup. If you do not have enough space, **JackSprat** will show you how much space you will need to have on your Expansion card for a successful backup.

### Step 2: Remove the Extra Applications and Features

In this step, **JackSprat** shows you the built-in applications and features that you may optionally remove from flash. Items can be deleted, moved to RAM or left in the OS.

1. Launch **JackSprat** and tap REMOVE EXTRAS.
2. Go through the list of items and delete ones that you are not using.
3. You may also choose to move an item to RAM, rather than deleting it. This allows you to move infrequently used items to an expansion card or back them up and restore them via HotSync.
4. Once you have decided which items should be deleted, and which ones should be moved to RAM, tap UPDATE to free up the Flash.
5. The Palm will automatically Reset when the process is complete.

At the bottom of the screen, there are three items to help you determine how much free space you have. **Free RAM** shows how much RAM is currently available. If you move items to RAM, it will decrease. **Free Flash** shows you how much total flash will be available to **JackFlash** once the items have been removed. The **JackFlash** flash area can only increase by 64k increments. If you free up less than 64K, then it will go into the **Free OS Heap**. Flash in the **Free OS Heap** cannot be used.

### Step 3: Remove the Extra Languages

In this step, **JackSprat** removes all languages except the one that you are currently using. This step is only available if your device has more than one language installed. If step three does not show up in the main JackSprat display, then your device only has one language installed.

**Note:** *If you wish to keep a different language than the one you are currently using, you must perform a Hard Reset and then select the correct language before you use JackSprat.*

To remove the extra languages:

1. Launch **JackSprat** and tap REMOVE LANGUAGES. **JackSprat** automatically resets the handheld when it completes. The process takes approximately four minutes.
2. Once the handheld resets, you can now run **JackFlash** to start using the extra Flash space that you have now recovered.

## Restoring your Palm to its Original State

At some point in the future, you may need to restore your handheld to its original state. For example, you may wish to sell the handheld or use a different language than the one you are currently using.

### Restoring the ROM via HotSync

If you backed up your ROM via HotSync, then you will need to restore it via HotSync as well.

1. Perform a hard reset to clear all the data on your handheld.
2. Place the handheld in the cradle and press the HotSync button to perform a HotSync. A dialog appears, displaying a username list.
3. Select the user name that you created for the ROM backup and restore the handheld. Once the HotSync is completed successfully, a file called "FlashWrite" appears on your handheld.
4. Launch "FlashWrite" and tap RESTORE PALMOS.
5. A message appears, warning you that installing the OS also requires erasing the RAM. If you are ready to proceed, tap OK.

The software begins restoring the ROM. The process takes approximately three minutes, after which the handheld automatically performs a Hard Reset.

6. The prompt "Erase All Data?" appears. Press the "Up" scroll button to erase the RAM and successfully boot the restored OS.

You have now fully restored your handheld with the original ROM image.

### Restoring the ROM from an Expansion Card

If you backed up your ROM to an expansion card, then you will need to restore it from the expansion card.

1. Launch "FlashWrite" from the Card category of the Launcher.
2. A message appears, warning you that installing the OS also requires erasing the RAM. If you are readying to proceed, tap OK.

The software begins restoring the ROM. The process takes approximately three minutes, after which the handheld automatically performs a Hard Reset.

3. The prompt "Erase All Data?" appears. Press the "Up" scroll button to erase the RAM and successfully boot the restored OS.

You have now fully restored your handheld with the original ROM image.

## Frequently Asked Questions

### **After removing items with JackSprat, is it necessary to leave it on the device?**

No. JackSprat can be deleted from the device once you have finished removing items. It may then be reinstalled at a later date, if you want to remove other items.

### **Is there any way to restore items to the OS, without doing a complete OS Restore?**

No. Items that have been moved to RAM, cannot be restored to the OS area individually. You may move them to flash using JackFlash, or do a full restore.

### **Are items moved to RAM backed up by HotSync?**

Yes, on the next HotSync they will be backed up, and will be stored in your Backup directory in your Palm folder.

### **I used JackSprat to move an application to RAM. Then I backed it up with HotSync and finally I deleted from the device. Now I want to restore it. How do I do this?**

Items that have been backed up with HotSync and then deleted will appear in the Archived folder of your HotSync user folder. Find the file that you want to reinstall and use the install tool as normal. However, many ROM applications have two files: the application itself, and an overlay with language specific displays. If your application has an overlay, it will be in the same directory. An overlay has the same name as the original application except that it has a language suffix. Make sure that you install the overlay as well.

Common suffixes are: \_enUS (US English), \_frFR (French), \_deDE (German), \_esES (Spanish), \_itIT (Italian) and \_ptBR (Portuguese).

### **Does JackSprat backup items stored in Flash by JackFlash?**

No. JackSprat only backs up the OS area.

## **Items which can be removed by JackSprat**

After removing applications that you do not use or for which you have a replacement, use the buttons preference panel to reassign the buttons to the applications to the ones you are using.

### **Common to Most Devices**

#### **Address**

The built-in Address book may be deleted if you do not use it or you have a replacement.

#### **Applications/Launcher**

The built-in application launcher may be deleted if you use a replacement launcher. After a battery failure, or Hard Reset, your Palm may be very difficult to use. You may have to manually re-assign your replacement launcher using the Buttons Preferences Panel. In general, we suggest that you do not delete this application.

#### **Calculator**

The built-in Calculator may be deleted if you do not use it or you have a replacement.

#### **Clock**

The built-in clock is available on some newer devices and may be deleted if you do not use it.

#### **Date Book**

The built-in Date Book may be deleted if you do not use it or you have a replacement.

#### **Expense**

The built-in Expense manager may be deleted if you do not use it or you have a replacement.

#### **Mail**

The built-in mail program may be deleted if you do not use it or you have a replacement.

#### **Memo Pad**

The built-in memo program may be deleted if you do not use it or you have a replacement.



**Modem**

The built-in modem support may be deleted if you do not use a modem with your PalmOS device.

**Network Support**

The built-in network support may be deleted if you do not use your Palm to directly connect to the Internet through a modem, a wireless connection or an Ethernet cradle.

**Note Pad**

The free hand note pad is available on some newer devices and may be deleted if you do not use it.

**Phone Support**

This feature, available on some newer devices, allows PalmOS users to connect to their Palm to certain types of cell phones.

**Security**

The built-in security application may be deleted if you do not lock your Palm or you have a replacement security application.

**To Do List**

The built-in to-do list may be deleted if you do not use it or you have a replacement.

**WebClipping Support**

This feature, available on some newer devices, allows PalmOS users to use PQA or web-clipping applications. It is only useful if you have a direct Internet connection for your device.

**Welcome/Setup**

The built-in welcome application may be safely deleted.

**Palm Specific****Bluetooth**

If Bluetooth networking is not required, it may be removed. On the Tungsten|T, this also disables the build-in Voice Memo application.

**Clock**

The built-in clock can be safely removed if it is not needed.

### **DocsToGo**

The build-in DocsToGo support can be removed if it is not needed.

### **MultiMail/VersaMail**

These advanced mail applications can be removed if they are not needed.

### **Photos**

The photo application can be safely removed if not needed.

### **PPTP VPN**

This is a built-in VPN that supports the PPTP protocol. It can be removed if not needed.

### **Voice Memo**

The built-in Voice Memo application can be safely removed if not needed. If Bluetooth support is removed from the Tungsten|T, then this application should also be removed.

### **Web Browser**

The built-in web browser may be removed if not needed.

### **WiFi**

If Wireless networking if not required, it can be safely removed.

### **Clie Specific**

#### **ATOK**

This is the built-in Japanese language input support on Japanese devices. It can be removed if Japanese input is not needed.

#### **AudioPlayer**

The built-in audio player may be deleted or moved to an expansion card if you do not use it.

#### **AudioPlayerSkin**

The built-in audio player skin may be deleted if you use a different skin.

### **Bejeweled**

This game be deleted or moved to an expansion card if you do not use it.

### **Clie Camera**

The application for taking pictures on Clie devices with built-in cameras. It can be removed, if the camera is not needed.

### **Clie Demos**

The Clie demos may be safely deleted.

### **Clie Paint**

This is the built-in painting application on Clie devices. It can be removed if it is not needed.

### **Clie RMC**

This is the built-in TV/DVD remote application on some Clies. It can be safely removed if not needed.

### **gMovie**

The movie application be deleted or moved to an expansion card if you do not use it.

### **Kinoma**

The movie application be deleted or moved to an expansion card if you do not use it.

### **MS Backup**

The built-in backup program may be deleted if you do not use it or you have a replacement.

### **MS Gate**

The built-in expansion card browser may be deleted if you use a replacement VFS browser.

### **MS Import**

This application lets you mount your MemoryStick expansion card as a drive on your computer. You can then quickly remove or install items into the expansion card.

### **MSAutoRun**

This application lets you set up items to be automatically run when a MemoryStick is inserted. If you do not need this feature, it can be deleted.

### **PictureGear Pocket**

The picture application be deleted or moved to an expansion card if you do not use it.

### **PhotoStand**

The photo application be deleted or moved to an expansion card if you do not use it.

### **World Alarm Clock**

This clock can be removed if its capabilities are not needed.

### **Handspring Treo Specific**

#### **Blazer**

The built-in web browser can be safely removed if its features are not needed.

#### **City Time**

This world time application can be safely removed if it is not needed.

### **Compressed Apps**

On some Treo devices, the built-in applications are compressed to fit into the ROM. Normally they are expanded to RAM and backed up via HotSync. If you remove these apps, then the built-in applications will not be available after a Hard Reset, until they are restored via HotSync.

### **SMS Support**

If SMS capabilities are not need, then it can be removed.

### **SIM Services**

If an updated SIM Services application has been installed in RAM, then the built-in version can be safely removed.

## **Kyocera Specific**

### **Alarm: <alarm name>**

The different alarms can be individually removed if not needed.

### **Browser**

The WAP browser can be safely removed if it is not needed.

### **EISBrowser**

The EIS Web browser can be safely removed if it is not needed.

### **Eudora**

The Eudora mail application can be safely removed if it is not needed.

### **Eudora Web**

The Eudora Web browser can be safely removed if it is not needed.

### **Fax/Modem**

The Fax application can be safely removed if it is not needed.

### **FileManager**

The File Manager can be safely removed if it is not needed.

### **Flip: <flip name>**

The different flip tones can be individually removed if not needed.

### **Messages**

The Messages application can be safely removed if it is not needed.

### **MP3Player**

The MP3 player can be safely removed if it is not needed. Removing it does not disable MP3 ring tones.

### **PhotoSuite**

The photo application can be safely removed if it is not needed.

### **Ring: <ring name>**

The different ring tones can be individually removed if not needed.

**Tetris**

The Tetris game can be safely removed if it is not needed.

**Voice Dial**

The voice dial feature can be safely removed if it is not needed.

**Voice Memo**

The voice memo feature can be safely removed if it is not needed.

**HandEra Specific****Backup**

The built-in backup program may be deleted if you do not use it or you have a replacement.

**CardPro**

The built-in expansion card browser may be deleted if you use a replacement VFS browser.

**VoicePad**

The built-in voice recorder may be deleted if you do not use it.