



# DSSCalc

Flight Computer for PalmOS®



- For PalmOS® 2.0 or later.
- Easy-to-use menus guide your problem inputs!
- Solves time/speed/distance, fuel, altitude/airspeed, wind, weight & balance, performance, conversions.
- Computations performed instantly as you enter problem data in any order!
- Eight memories store numbers or time values.
- Uses only 89 K of Palm memory.
- On-line computation Help!

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## For Technical Support

### **How to reach us:**

You can e-mail us on the Internet at **ddeloach@msn.com** for “same or next day” service (we check our mail every day).

For technical support by phone, call Darren evenings from 7:30 pm to 10:30 pm Central at **903-583-0982**.

## **Other Great Software Products from DS&S!**

DSSTest FAA Written Exam Study for Windows

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## Overview

**W**elcome to DSSCalc for PalmOS, the fast and easy way to do everyday aviation computations on your handheld computer! Using DSSCalc, you can quickly perform all of the usual preflight calculations quickly and accurately on your Palm® device.

DSSCalc works similar to a standard electronic flight computer. If you already own a Jeppesen Techstar or other electronic flight computer, you'll feel right at home with DSSCalc!

DSSCalc is actually two calculators in one: a standard "four-banger" calculator with +, -, \*, / and % operators, and a menu-driven aviation computer with numerous aviation computations and conversions built-in.

This manual will give you all the information you need to get started performing aviation computations. After you have installed the software on your Palm® device using HotSync®, you can get information specific to a computation dialog in the on-line Help.

## Program Installation

### Before Installing

Before you install DSSCalc, make sure your computer meets the following minimum PC requirements:

#### System Requirements

- An IBM PC-compatible running the Palm® HotSync® software
- A PalmOS® version 2.0 or later handheld device
- 90K of free RAM in your handheld device

We welcome any comments you have on the installation and use of our software; future enhancements (and future pilots) depend on your feedback.

### Setting Up DSSCalc

1. From the Start Menu, start the Palm Desktop Install Tool.
2. Place the Installation Disk in the A: 3.5" floppy disk drive.
3. Click the Add button in the Install Tool and browse to your A: drive.
4. Select the following files to be added at the next HotSync operation: **DSSCALC.PRC** and **MATHLIB.PRC**.
5. Click Done to exit the Install Tool.
6. Place your handheld device in the cradle, and begin a HotSync operation by pressing the button on the cradle. The software will be copied to your Palm device.

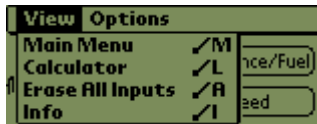
## DSSCalc User Interface Basics

### The DSSCalc Main Menu

The main menu consists of seven buttons that select general categories of aviation computations, plus several menu options. Tap one of the buttons to begin solving an aviation problem :



There are only two **Menu** trees on the Main Screen:

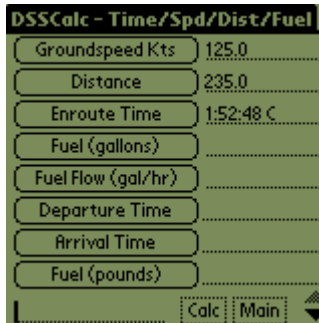


- **View** — This menu is repeated on all screens except the Calculator. You can bring up the Main Menu or the Calculator dialogs, Erase all inputs you have made on every computation screen, or get on-line help using the Info option.
- **Options** — Contains two menu items, About DSSCalc and About MathLib, which give copyright information.

### The Computation Screens

The **Aviation Computation** screens have eight buttons arranged vertically on the left side, and each button has an associated input/computed value window on the right side. These buttons represent a “menu” to guide you through your

computations; clicking a button will either select the described sub-menu, or copy the value in the input text field at the bottom left corner of the screen into the described problem input. Values that are followed by a “C” are computed values.



For example, to solve an Enroute Time problem given a groundspeed of 125 knot and a distance of 235 NM, you would:

1. Enter 125 in the text input field at the lower left, then click the “Groundspeed Kts” button.
2. Enter 235 in the text input field, then click the “Distance” button.
3. The computed time is automatically displayed beside the “Enroute Time” button with a “C” beside it to indicate it is a calculated value.

The Calc and Main buttons display the associated Calculator and Main Menu dialogs. Some computations screens have more than the eight displayed values, such as the example above; in these cases, the bottom right corner has two scroll arrows to scroll the values up or down. The hardware scroll buttons on your handheld device will also scroll the dialog.

In addition to the View menu described previously and a standard Edit menu, the computation dialogs also have a Memories menu option to recall any of the eight memory values, or jump directly to the Memories dialog.

## The Calculator Screen

Choose the View | Calculator menu option or click the Calc button on any computation screen to display the Calculator.



The **Calculator keys** are at the bottom, and work just like a regular hand-held calculator. Note that four conversion buttons “F>C”, “C>F”, “N>S” and “S>M” along the top give you instant one-click access to statute/nautical mileage and fahrenheit/celsius temperature conversions without going through the aviation menus. The “**Sto**” (Store) and “**Rcl**” (Recall) buttons work on the eight independent

memories numbered “1” through “8”; you can save numbers or time values. The “BkSp” (BackSpace) button lets you delete the previously entered character. The “**Exit**” button will return you to the dialog you were on when you called up the Calculator. Finally, the “:” button lets you enter time values in standard “hh:mm:ss” format. Note that you can do simple time math, such as adding two time values together.

## Sample Problem

Given: *Groundspeed* 150 knots  
*Distance to travel* 350 miles  
*Fuel flow* 9 gal/hr  
*Departure time* 17:00:00Z  
 Find arrival time and fuel used.

a. From the Main Menu, select the "Time/Spd/Dist/Fuel" button.

b. Enter **150** on the display, then click on the "Groundspeed Kts" button.

c. Enter **350** on the display, then click on the "Distance" button.

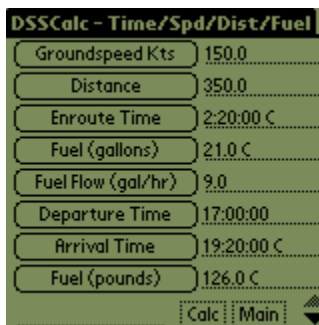
d. The time enroute is calculated, 2:20:00.

e. Enter **9** on the display, then click on the "Fuel Flow (gal/hr)" button.

f. Total fuel is calculated, 21.0 gallons or 126.0 pounds.

g. Enter **17:00:00** on the display, then click on the "Departure Time" button.

h. The arrival time is calculated, 19:20:00.



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