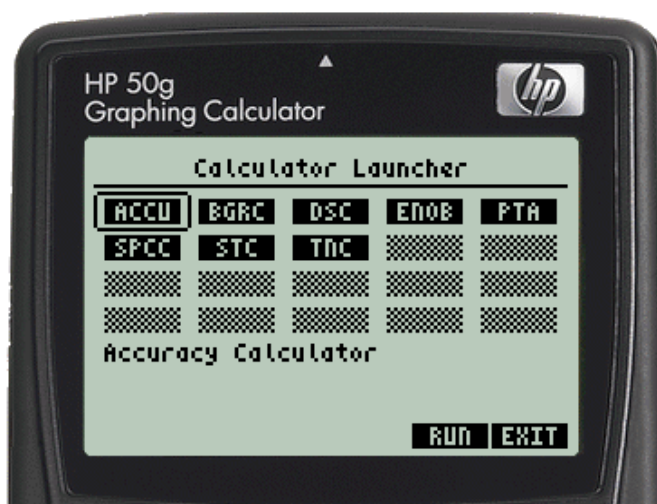


# CALCULATOR LAUNCHER USER'S GUIDE



Stephen D. Edwards  
Maxim Integrated

## INTRODUCTION

Calculator Launcher (CALC) is a program for the HP50g Handheld Calculator designed to simplify managing and launching multiple HP50g calculator programs found on Maxim's Analog Design Calculators page at [www.maximintegrated.com](http://www.maximintegrated.com). CALC only runs on a physical HP50g calculator. It *cannot* be run on a PC using an emulator.

CALC offers the following advantages:

- Provides a single program from which to launch up to twenty calculators
- Calculator 'icons' that can be arranged as desired on a 2D grid
- Calculator names, versions, and release dates can be displayed
- Calculator's alert sound can be turned on and off
- Parameter data can be easily shared among all calculators
- Enables jumping directly to the previously run calculator

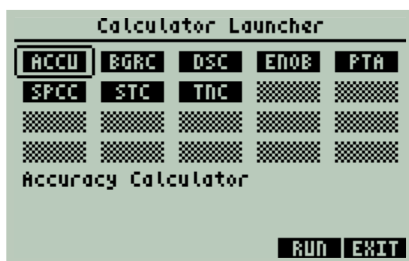
## INSTALLATION

CALC can only be installed on a physical HP50g calculator. It *cannot* be run on a PC using an emulator.

### Installing CALC on the HP50g Calculator

1. Copy the executable file CALC to the home directory or subdirectory of the HP50g calculator.
2. Copy all calculator executable files (\*.hp) to the root directory of the SD card in the HP50g Graphing Calculator.
3. Launch CALC.

The initial screen displays all previously installed calculators.

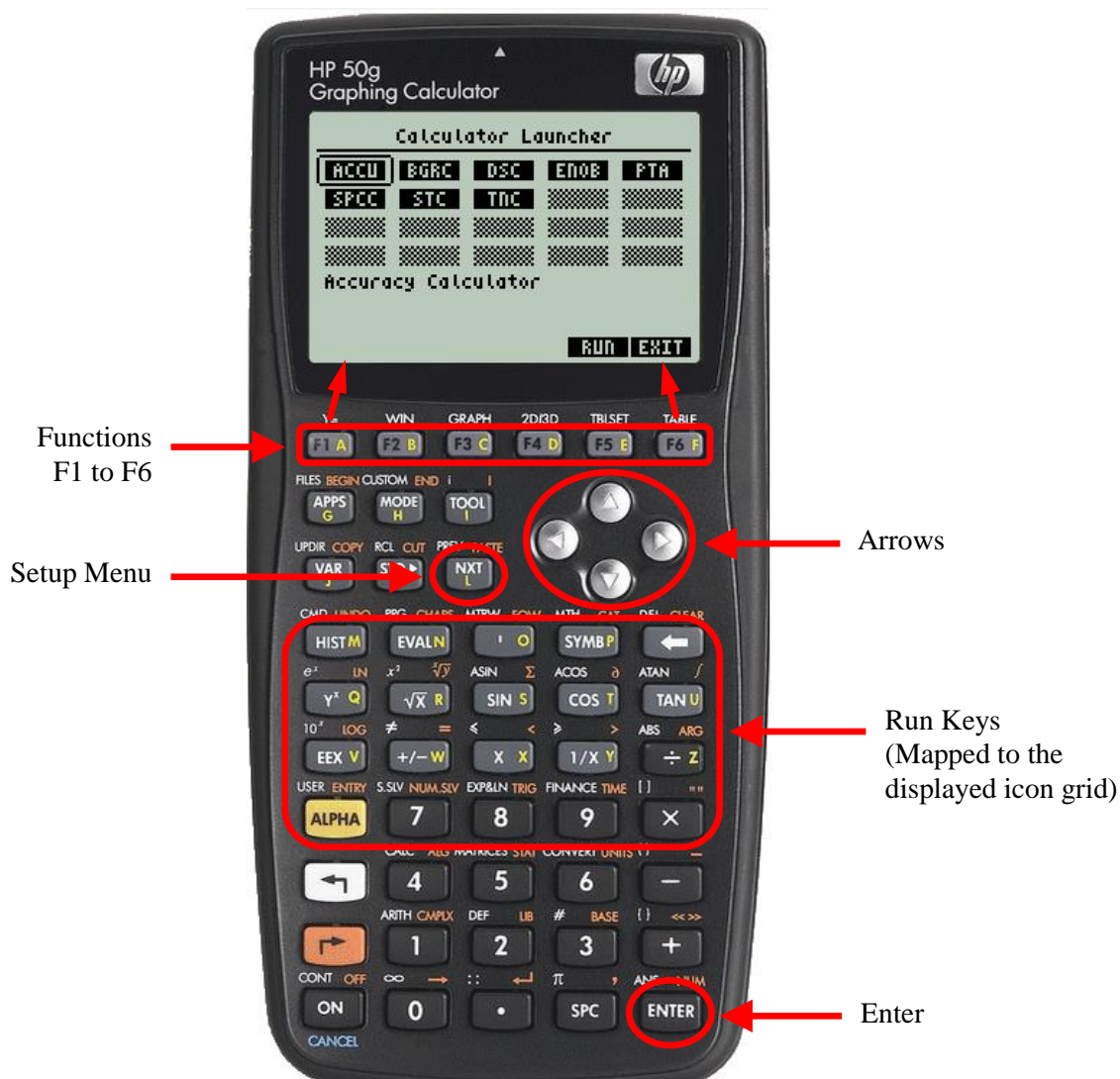


All calculators, whose executable files are on the SD card, will automatically be installed the first time CALC is run, or anytime the string "ALL" is placed in level 1 of the stack prior to running CALC.

Refer to the HP50g Graphing Calculator User's Guide for instructions on how to copy files to the calculator.

## KEYBOARD

The following diagram shows the location of all keys used by CALC:



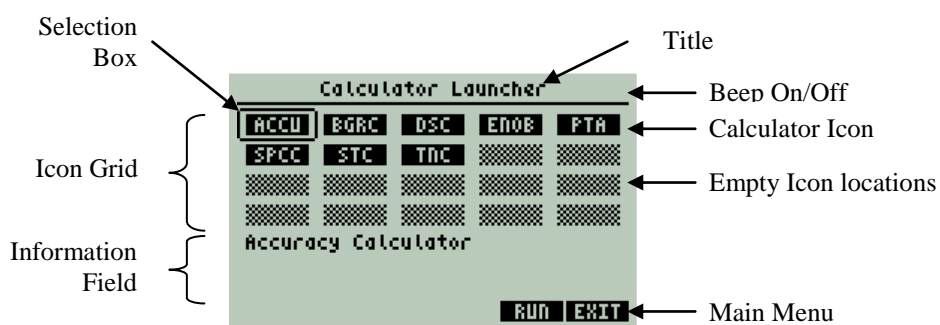
## COMMANDS





CALC has two sets of commands:


- Main Menu Commands
- Setup Commands



### Main Menu Commands

After launching CALC the first time, the following screen appears displaying icons of all previously installed calculators in alphabetical order.







Use the arrow keys (  ,  ,  ,  ) to select a program to launch

 activates the setup menu.

 (  ) launches the calculator selected by the arrow keys

 (  ) or  (Cancel) exits CALC

 -  selects and launches the calculator mapped to the displayed icon grid

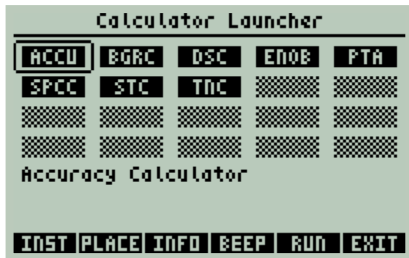
  turns off the calculator

All calculators launched by CALC must have their executable files ( \*.hp ) located in the root directory of an SD card in the HP50g Graphing Calculator.

## Setup Commands

Press the **(NXT)** key to display the Setup Commands.

The setup commands are used to configure the arrangement of the calculator icons and to display selected calculator information. Once configured, it is permanently saved until changed again by the user.



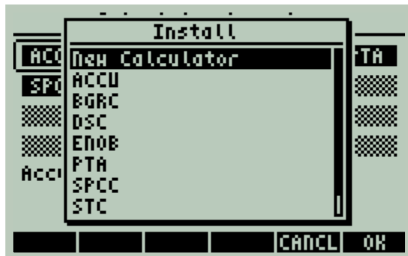
← Menu with Setup Commands

The Setup Menu has four commands:

- (F1)** ( **INST** ) display a menu of commands to install new calculators or reinstall existing calculator
- (F2)** ( **PLACE** ) display a menu of commands to position calculator icons
- (F3)** ( **INFO** ) optionally displays calculator name, and version number and release date
- (F4)** ( **BEEP** ) toggles the alert sound on and off.

### Install Command, **(F1)** ( **INST** )

The Install Command displays the Install Menu. These commands are used to install new calculators or to reinstall newer versions of existing calculators.

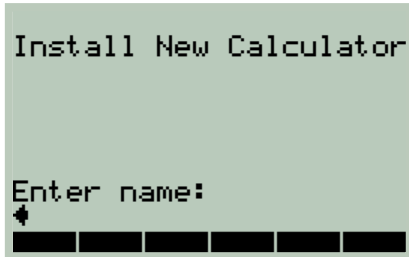


The Install Menu displays the following list of commands:

1. “New Calculator” allows the user to enter the name of a new calculator located in the root directory of the SD card.
2. A list of all installed calculators that can be reinstalled.

To install a new calculator, do the following:

1. Copy the new calculator executable file (i.e., WXYZ.hp) to the root directory of the HP50g's SD card.
2. Select "New Calculator" from the Install menu, and press OK ( F6 ). The following screen appears:



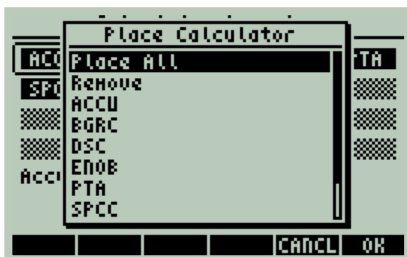
3. Enter the calculator's name (i.e., "WXYZ") and press Enter

To reinstall a calculator, use the arrow keys to select a calculator from the list, and press OK ( F6 ).

Alternatively, *all* calculators can be automatically reinstalled by placing the string "ALL" in level 1 of the stack before launching CALC. All reinstalled calculators will have their current parameter values replaced with their default values.

## Place Command, F2 ( )

The Place Command displays the Place Calculator Menu. These commands are used for arranging the calculator icons in the Icon Grid area of the display.



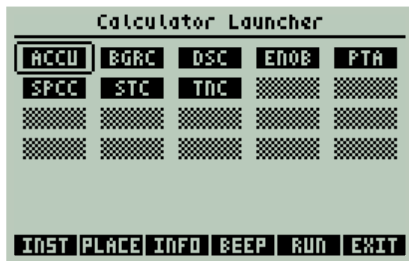
The Place Command Menu displays the following list of commands:

1. "Place All" automatically places all installed calculator icons in alphabetical order
2. "Remove" removes a selected icon from the display
3. A list of installed calculators. Places the selected calculator icon at the selected icon location

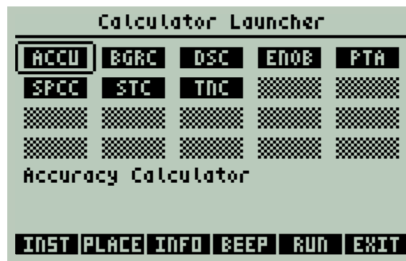
Use the arrow keys to select a command, and press OK ( F6 ).

## Info Command, ( )

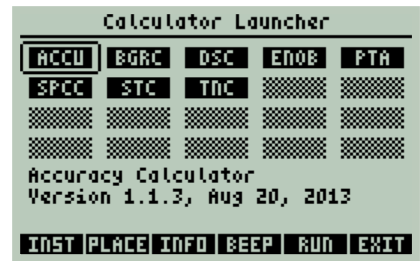
The info command selects the information displayed when a calculator is selected.



None



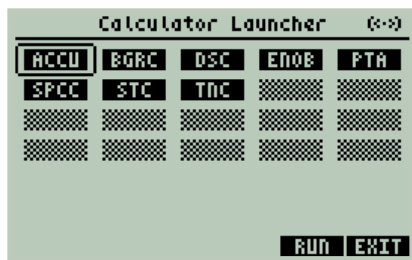
Name only



Name, Version,  
and Release Date

## Beep Command, ( )

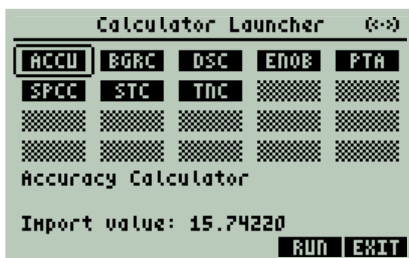
Toggles the alarm on and off for all calculators.



## Transferring Parameter Values between Programs

Any parameter value can be transferred between calculators using each calculator's Import and Export commands. Please refer to the calculator's User's Guide for instruction on the use of these commands.

Exported values appear in CALC at the bottom of the information area, after exiting a calculator.



The import value shown in CALC will appear as an import value in any subsequently launch program. When CALC is exited, the import value will be placed on level 1 of the stack. Any real number in level 1 of the stack appears as an Import value when CALC is first launched.

## **TOOLS, MODELS, AND SOFTWARE NOTICE**

Information furnished by Maxim Integrated is believed to be accurate and reliable. However, the company cannot assume responsibility for use of any circuitry other than the circuitry entirely embodied in a Maxim product; nor for any infringements of patents or other rights of third parties that may result from its use. No license is granted by implication or otherwise under any patent rights of Maxim Integrated. Maxim reserves the right to change the circuitry and specifications without notice.