2cities for Palm
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UPDATES

9-9-2000 Documentation update.

Version 1.2 3-23-2000 Complete re-design of user interface, databases remain the same. Added conversions for distance, area, fluids and weight.

Version 1.1 1-22-2000 Added save/restore city selections when exiting and restarting program, backup to PC during Hotsync, minor corrections.

Version 1.0 12-11-1999 Original release.

FILES

Four files are required for the 2cities program to execute properly, 2cities.prc, airpDB-Tsic.PDB, ctry-Tsic.PDB and MathLib.PRC. These files are included in the .zip file. If you are already using the MathLib shared library, there is no need to load it into your Palm.

SHORT DESCRIPTION

2cities provides a world clock, country graphics, currency conversions, distance between cities, for 58 countries and 128 international airports plus temperature, distance, weight and fluid conversions.

DESCRIPTION

2cities displays country graphics, computes distance between 2 cities, shows local time, converts currency between US dollars and local money, translates Celsius degrees to Fahrenheit, and performs a number of conversions between the English and the metric system. The databases include 58 countries and 128 international airports and cities. Each city is associated with a memo where pertinent information may be kept such as Hotel addresses, telephone number dialing instructions etc. Country, airport and city data may be updated and edited, and new records can be added into the databases.

USE

TwoCities R mi km 7210 --+	SelectAirport City 1	Details MEL Melbourne
Australia **Argentina**	Argentina EZE Buenos Aires	**MEL Melbourne Inte**
	Australia PER Perth	**Melbourne, Australia**
	Australia MEL Melbourne	**A$ Australian Dol**
	Australia SYD Sydney	**Gmt 10, Lat -37.6, Long -144.8**
	Austria VIE Vienna	
	Belgium BRU Brussels	Memo Currency
	Brasil GIG Rio De Janeiro	Temperature Distance
Melbourne **Buenos Aires**	Bulgaria SOF Sofia	Weight Fluids
MEL Sun 6:13 am EZE Sat 5:13 pm	Canada YYZ Toronto	Area
Local: 9/9/00 Sat 8:13 pm	Canada YYC Calgary	
City1 City2 Select Details	Cancel	Done

Start the 2cities program by tapping on airplane icon. Choose "City1" or "City2" and then tap the "Select" button to select a city. Select from the list of city-airports by tapping on the name, move the scroll bar to find the city-airport of choice. Repeat this procedure for selecting the second city. At this point local date-time, city1 and city2 date-times will be shown, and the distance in miles and kilometers for the two cities chosen.

Memo MEL Melbourne	Temperature	Weight
Visited on July 99 ...	**Celsius, Fahrenheit**	**Tons, Lbs, Ozs**
		Kilograms, Grams
	25 Degrees	
	F 25.00	85 ▼ Kilograms
	C -3.88	187.224 ▼ Pounds
	C 25.00	
	F 77.00	
Done	Compute Done	Compute Done

Currency Australia	Distance	Fluids
A$ Australian Dol	**Naut Miles, Miles, Yards**	**Gallons, Quarts, Pints**
1 USD = 1.665	**Feet, Inches, Kilometers**	**Ounces, Liters**
50 Amount	**Meters, Centmeters**	
$ 50.00	50 ▼ Miles	3 ▼ Quarts
A$ 83.25	80.467 ▼ Kilometers	2.839 ▼ Liters
A$ 50.00		
$ 30.03		
Compute Done	Compute Done	Compute Done

Area
Sq Miles, Acres, Sq Yards
Sq Feet, Sq Kilometers
Sq Meters
1   ▼ Sq Miles
639.999   ▼ Acres
Compute Done

For more information either city tap the "Details" button. At the details screen tap the appropriate button: currency conversions, temperature conversions between C and F degrees, distance, weight, fluids and area conversions.

LOCAL TIME ZONE

```
┌─────────────────────────┐   ┌─────────────────────────┐
│ Options                 │   │ PalmTimezone            │
│ F PalmTimezone   ╱Z │na │   │ Current Timezone:       │
│   EditCountry    ╱C │   │   │   0                     │
│   DeleteCountry  ╱O │   │   │ New Timezone:           │
│ 1 NewCountry     ╱Y │   │   │   -5│          examples:│
│   EditAirport    ╱A │   │   │               -8 LA     │
│   DeleteAirport  ╱I │   │   │               -6 Chicago│
│   NewAirport     ╱T │   │   │               -5 NY     │
│ N Registration   ╱R │Aires│ │               +0 London │
│ N About          ╱B │24 pm│ │               +1 Paris  │
│ Local: 9/9/00 Sat 8:24 pm │ │               +2 Athens │
│ City1 City2 Select Details│ │               +8 Sydney │
└─────────────────────────┘   │ (Cancel)( Ok )          │
                              └─────────────────────────┘
```

2cities needs the time zone for the local time that the Palm is displaying. To set the local time zone activate the options menu at the main screen and tap the "Palm Timezone" item. When that screen appears enter a number between -12 and +12.

OPTIONS

```
┌─────────────────────┐  ┌─────────────────────┐  ┌─────────────────────┐
│ SelectCountry Edit  │  │ Country Edit        │  │ Country  New        │
│   Argentina      ▲  │  │ Australia           │  │ Name                │
│   Australia      █  │  │ ...................  │  │   I.................│
│   Austria        █  │  │ 1200                │  │ Map                 │
│   Belgium        █  │  │ ...................  │  │ ...........         │
│   Brasil         █  │  │ A$                  │  │ Currency Acronym    │
│   Bulgaria       ▓  │  │ ...................  │  │ ...........         │
│   Canada         ▓  │  │ Australian Dol      │  │ Currency Name       │
│   Chile          ▓  │  │ ...................  │  │ ...........         │
│   China          ▓  │  │ 1.665               │  │ Currency Rate       │
│   Croatia        ▼  │  │   1.82........      │  │ ...........         │
│ (Cancel)            │  │ (Cancel)( Ok )      │  │ (Cancel)( Ok )      │
└─────────────────────┘  └─────────────────────┘  └─────────────────────┘
```

Several options are available for 2cities: the country and airport databases may be modified or new records may be added. It is recommended that only items like currency conversion factors, currency names and airport latitudes and longitudes be changed. Currency factors are always changing and you may want to enter a more exact location for a specific airport.

When you do update any of the fields including the currency rate, reselect your ciry1 and city2 choices at the main screen. Your displayed data is this way updated with your latest changes.

ADDING NEW AIRPORTS
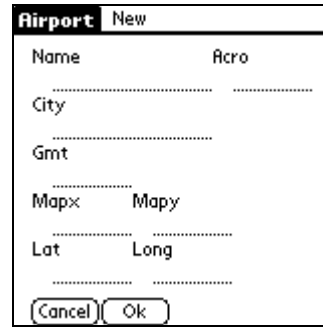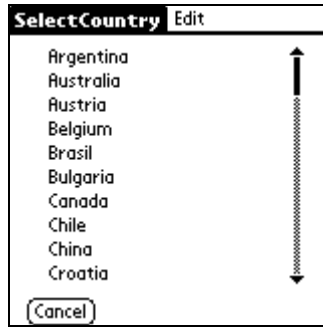
It is easy to add a new airport as long as the country exists in the database. Adding a new country, because of the graphic, it is a little more difficult and the program itself needs to be updated.

To add a new airport you will need the following information:

        Name
        3-letter acronym
        a city name
        time zone
        mapx, mapy locations
        latitude and longitude

You'll need to find the location of the airport in terms of latitude, longitude. For well known international airports search the Internet, for local airports check references, maps in the library or call the airport. If all fails look at a good ATLAS and get an approximate location. Until you find the correct location you may enter 0.0 0.0 for latitude, longitude, but the distance computed will be wrong. To compute mapx, mapy do the following:

```
    0,0.........................>x
    .
    .
    .               40,40
    .
    V
    y
```

Each country graphic is an 80x80 pixel image with the origin at the upper left hand corner. X values are for 0 to 79 (left to right), y values are 0 to 79 (top to bottom). The center of the graphic is at x=40 y=40. Estimate the location of the airport/city on the country graphic and enter this pair of x,y values for your new airport. They need not be very accurate. Mapx, Mapy coordinates are used to draw the distance line from the origination city to the 2nd city.

Then, on your Palm execute the 2cities program, tap on the menu and select the NewAirport option, then tap on the country name and the "Airport New" screen will appear. Enter all fields on this screen and press the OK button. That's it.

CITIES and AIRPORTS

Country	City	Acronym	Airport
Argentina	Buenos Aires	EZE	Ministro Pistarini
Australia	Melbourne, Victoria	MEL	Melbourne International
	Perth, Western Australia	PER	Perth International
	Sydney, New South Wales	SYD	Kingsford Smith
Austria	Vienna, WI	VIE	Schwechat Airport
Belgium	Brussels	BRU	Brussels Airport
Brazil	Rio De Janeiro	GIG	Aeroporto Internacional Galeao
Bulgaria	Sofia	SOF	Vrajdebna
Canada	Calgary, Alberta	YYC	Calgary International Airport
	Montreal	YUL	Dorval International
		YMX	Mirabel International
	Toronto	YYZ	Lester B. Pearson
	Vancouver	YVR	Vancouver International
Chile	Santiago	SCL	Benitez International
China	Beijing	PEK	Beijing Capital International
	Guangzhou	CAN	Baiyun Airport
	Shanghai	SHA	Hongqiao Airport
Croatia	Zagreb	ZAG	Aerodrom Zagreb
Cyprus	Larnaca	LCA	Larnaca Airport
Czech Republic	Prague	PRG	Ruzyne Airport
Denmark	Copenhagen	CPH	Copenhagen International
Egypt	Cairo	CAI	Cairo International
Estonia	Tallinn	TLL	Yulemiste
Finland	Helsinki	HEL	Vantaa Airport
France	Lyons	LYS	Satolas Airport
	Marseilles	MRS	Marseilles-Marignane
	Nice	NCE	Cote D'Azur
	Paris	CDG	Charles de Gaulle
		ORY	Roissy
Germany	Berlin	SXF	Schonefeld Airport
		TXL	Tegel Airport
		THF	Tempelhof Airport
	Dusseldorf	DUS	Dusseldorf Airport
	Frankfurt	FRA	Frankfurt Airport
	Friedrichshafen	FDH	Friedrichshafen
	Hamburg	HAM	Fuhlsbüettel Airport
	Munich	MUC	Franz Josef Strauss
	Nuremberg	NUE	Nuremberg Airport
Greece	Athens	ATH	Hellinikon
Greenland	Kangerlussuaq	SFJ	Kangerlussuaq
Hungary	Budapest	BUD	Ferihegy Airport
India	Bombay	BOM	Sahar International
	Delhi	DEL	Indira Gandhi International
Indonesia	Jakarta	CGK	Soekarno Hatta
Ireland	Dublin	DUB	Dublin Airport
	Shannon	SNN	Shannon
Israel	Tel Aviv	TLV	Ben Gurion
Italy	Milan	LIN	Linate Airport
		MXP	Malpensa
	Rome	FCO	Leonardo da Vinci

	Turin	TRN	Turin International
Japan	Osaka	KIX	Kansai
	Tokyo	HND	Haneda
		NRT	Narita
Kenya	Nairobi	NBO	Jomo Kenyatta
Luxembourg	Luxembourg	LUX	Findel
Malaysia	Kuala Lumpur	KUL	Subang
Mexico	Mexico City	MEX	Benito Juarez
Netherlands	Amsterdam	AMS	Amsterdam
New Zealand	Auckland	AKL	Auckland International
Norway	Oslo	GEN	Gardermoen Airport
Peru	Lima	LIM	Jorge Chavez International
Philippines	Manila	MNL	Ninoy Aquino International
Poland	Warsaw	WAW	Okecie Airport
Portugal	Lisbon	LIS	Lisboa International
Romania	Bucharest	OTP	Otopeni International
Russia	Moscow	SVO	Sheremetyevo II
Saudi Arabia	Jedda	JED	King Abdulaziz
Singapore	Singapore	QPG	Payalebaar
Slovenia	Ljubljana	LJU	Brnik Airport
South Africa	Cape Town	CPT	D.F. Malan Airport
	Johannesburg	JNB	Jan Smuts Airport
South Korea	Seoul	SEL	Kimpo International
Spain	Barcelona	BCN	El Prat Airport
	Madrid	MAD	Barajas Airport
	Málaga	AGP	Málaga
Sweden	Stockholm	ARN	Arlanda Airport
Switzerland	Geneva	GVA	Geneva International
	Zurich	ZRH	Zurich International
Taiwan	Taipei	TPE	Chiang Kai-Shek Airport
Thailand	Bangkok	BKK	Don Muang International
Turkey	Istanbul	IST	Ataturk Airport
United Arab Emirates	Abu Dhabi	AUH	Nadia International
United Kingdom	Birmingham England	BHX	Birmingham
	London England	LGW	Gatwick Airport
		LHR	Heathrow Airport
		STN	Stansted Airport
		LCY	City Airport
	Manchester England	MAN	Ringway International
	Edinburgh Scotland	EDI	Edinburgh Airport
	Glasgow Scotland	GLA	Abbotsinch
	Belfast N Ireland	BFS	Aldergrove International
United States	Phoenix AR	PHX	Phoenix Sky Harbor International
	Los Angeles CA	LAX	Los Angeles International
	Oakland CA	OAK	Metropolitan Oakland International
	Sacramento CA	SMF	Sacramento International
	San Diego CA	SAN	San Diego International
	San Francisco CA	SFO	San Francisco International
	San Jose CA	SJC	San Jose International
	Denver CO	DEN	Denver International
	Washington DC	IAD	Washington Dulles
		DCA	Washington National
	Ft Myers FL	RSW	Southwest FL International

	Miami FL	MIA	Miami International
	Orlando FL	MCO	Orlando International
	W Palm Beach FL	PBI	Palm Beach International
	Honolulu HA	HNL	Honolulu International
	Chicago IL	ORD	Chicago OHare International
	Louisville KY	SDF	Louisville International
	Baltimore MD	BWI	Baltimore Washington
	Boston MA	BOS	Logan International
	Detroit MI	DTW	Detroit Wayne
	Minneapolis MN	MSP	Minneapolis St Paul International
	Newark NJ	EWR	Newark International
	New York NY	LGA	LaGuardia
		JFK	John F. Kennedy International
	Raleigh NC	RDU	Raleigh Durham International
	Pittsburgh PN	PIT	Pittsburgh International
	Columbia SC	CAE	Columbia Metropolitan
	Winner SD	SFD	Bob Wiley Field
	Nashville TN	BNA	Nashville International
	Dallas TX	DFW	Dallas Fort Worth
	Houston TX	IAH	George Bush Intercontinental
	Salt Lake City UT	SLC	Salt Lake City International
	Norfolk VI	ORF	Norfolk International
Venezuela	Caracas	CCS	Simon Bolivar Airport
Yugoslavia (Serbia & Montenegro)	Belgrade	BEG	Curcin

RESTRICTIONS

Registered users have full access to the program. Unregistered users are limited to 3 records of the database.

REGISTRATION

This program is offered free of charge but the user is encouraged to register. Only registered users are allowed full access to the 2cities databases.

To register on the web, and for latest information please visit our home page at

    http://www.pointinception.com/software/

When we are notified by our registration provider, your unique registration code will be forwarded to you by email.

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