

Interpol() is a little help in single and double interpolations from a data.  
It is very simple to use: just remember the notation!

F1		F2	F3	F4	F5	F6	F7
Zoom		Trace	Regraph	Math	Draw		
Single				Double			
RefV1	TabV1		ColV1	ColV	ColV2		
RefV	TabV	RowV1	V11		V12		
		RowV		V			
RefV2	TabV2	RowV2	V21		V22		
INT_OUT		DEG AUTO		FUNC			

It is possible to have every value entering an X in the respective position.  
If you want you can take this imagine on your TI-92 Plus for memorandum.

Example: single interpolation

	N2 Enthalpy	
Temperature [K]	300	311,8
	400	415,7

What's N<sub>2</sub> enthalpy at 350 K?

Select single interpolation and enter the value in this way:

RefV1= 300  
RefV= 350  
RefV2= 400  
TabV1= 311.8  
TabV= x  
TabV2= 415.7  
Enter

The program now displays all the value

RefV1= 300  
RefV= 350  
RefV2= 400  
TabV1= 311.8  
TabV= 363.75  
TabV2= 415.7

Example: Double interpolation

	Temperature [°C]	
	250	300
Pressure [bar]	1	2974,5
	2	2971,2

What's vapour enthalpy at 1.5 bar and 275°C?

Select double interpolation and enter the value in this way:

Row V1= 1  
Row V= 1.5  
Row V2= 2  
Col V1= 250  
Col V= 275  
Col V2= 300  
Enter  
V 1,250= 2974.5  
V 1,300= 3074.5  
V 1.5,275= x  
V 2,250= 2971.2  
V 2,300= 3072.1  
Enter

The program now displays all the value

Row V1= 1  
Row V= 1.5  
Row V2= 2  
Col V1= 250  
Col V= 275  
Col V2= 300  
Enter  
V 1,250= 2974.5  
V 1,300= 3074.5  
V 1.5,275= 3023.075  
V 2,250= 2971.2  
V 2,300= 3072.1

In both cases it's possible to enter an x in each place but remember to enter only one x at time

This program has been already used many times without problems. If you find any bug first assure you to have selected the English language in the Mode and not to have translated the code with any program. If the problem persists, please, let me know.

For a better and faster answer, please, enclose some screenshot of the bug: entered inputs, expected outputs, error messages, erroneous code line, Mode setting... it will help me very much!

My address is [paolosilingarditi@interfree.it](mailto:paolosilingarditi@interfree.it); write **TI-Program** as Object of e-mail!

**IN ORDER TO PREVENT SPAMMING, E-MAIL WITHOUT THE CORRECT OBJECT  
WILL BE AUTOMATICALLY DELETED!**

You can find all my programs at this address:

<http://www.ticalc.org/archives/files/authors/44/4458.html>.

Remember to vote this program in the site!

Paolo Silingardi