

# Index

**COLLABORATORS**

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# Chapter 1

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### 1.1 TurboCalc by Michael Friedrich

TurboCalc 4.0 - User Manual

copyright Michael Friedrich.

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EUCLID1(Number1;Number2)

EVEN(Number)

EXP(Number)

FAC(Number)

FLOOR(Number;Step)

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INTEGER(Number)

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LG(Number)  
LIMIT(X;a;b;V1;V2;V3)  
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PART(Text;Position;Length)  
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ROMAN(Number)  
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TEXT(Data[:Format])  
TOBIN(Number)  
TOHEX(Number)  
TOOCT(Number)

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TRIM(Text)

UPPER(Text)

UPPER2(Text)

VALUE(Text)

WORD(Text;Number)

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DATEVALUE(Text)

DAY(Date)

HOUR(Time)

HOURS(Time)

MINUTE(Time)

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MONTHTEXT(Date[;Abbreviation])

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SECONDS(Time)

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MIN(Range[;])

PICK(Index;Range;...)

PRODUCT(Range[;])

STDEV(Range[;])

SUM(Range[;])

---

VAR(Range[;])

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DAVERAGE(Database;Column;Criteria)

DCOUNT(Database; Column, Criteria)

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DFIRST(Database;Column;Criteria)

DLAST(Database;Column;Criteria)

DMAX(Database;Column;Criteria)

DMIN(Database;Column;Criteria)

DPICK(Index;Database;Column;Criteria)

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DSTDEV(Database;Column;Criteria)

DSUM(Database;Column;Criteria)

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CTERM(Present Value;Future value;Rate[;Frequency])

FV(Payment;Rate;Term[;Frequency])

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PMT(Future value;Rate;Term[;Frequency])

TERM(Future value;Payment;Rate[;Frequency])

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MSUB(Block 1;Block 2;ResBlock)

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PASTEDATA(Mode;[Block])

---

REFERENCESHIFT(X;Y;Flag;Block)  
REFERENCETYPE(Flag[;Block])  
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SERIES(Type;Increment;Columns;Range)  
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BOX(Left;Right;Top;Bottom;[Block])  
CHANGESTYLE(Num;[Block])  
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PATTERN(Number;[Block])  
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LOCALE(NF1;NF2;DF;Currency;CPrefix;CSuffix;Inch)  
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POSTSCRIPT()  
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ADDMENUSUB(Name;Command;[Menu;Item;Sub])

ADDMENUTITLE(Name;[Menu])

CHARTMENU()

DELMENUITEM(Menu;Item)

DELMENUSUB(Menu;Item;Sub)

DELMENUTITLE(Menu)

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BLOCKVARIABLE(Name;Block)

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DELETEVARIABLE(Name)

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MACROPLAY(Cell)

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FOLDER.RENAMESHEET()  
FOLDER.SAVESHEET([Name])  
FOLDER.SHOWSHEET()  
FOLDERNAME()  
Folders  
Folders  
Font  
FONT([Num];(CharacterSet);[Block])  
Fonts  
FOR(Variable;Begin;End;Step)  
Foreign Formats  
Format  
Formatting Commands  
Formatting  
FORMFEED(Flag)  
Formulas  
FORRANGE(Variable;Block;Flags)  
FRAC(Number)  
Frame  
FRAME(Left;Right;Top;Bottom;[Block])  
Freeze  
Freeze  
FREEZE(Cell)  
Function Keys  
Function Overview  
Functions  
Functions  
FV(Payment;Rate;Term[;Frequency])  
G  
GCD(Number1;Number2)  
General  
Generating a Series  
German-English [Commands]  
German-English  
GETCURSORPOS  
GETFORMULA [Cell]  
GETVALUE [Value]  
Global Settings  
Global Settings

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Global

GLOBALFLAGS()

Goto

GOTO(Cell)

GOTOCOLUMN(Column)

GOTOLINE(Line)

H

Help Items

Help

HELP(Num;File)

HEX(number text)

Hide Sheet-Window

Hide

Hide

HIDE(Row;[Block])

HLOOKUP(Value;Range;Offset;[Exact])

HOUR(Time)

HOURS(Time)

I

Iconify

ICONIFY()

IF(Condition;Value1;Value2)

IFFPRINT(File;Width;Height;Depth;Block)

IFGOTO(Condition;Cell)

Import from

INDIRECT(Text)

Info

INFO(Nr)

Input Commands

Input Formats

Input Mode

Input

INPUT(Text[;Title];[Cell])

Insert Cells

Insert Data

INSERTFORMULA()

INSERTMACRO()

INSERTNAME()

Installation

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INSTRING(String;Pattern[:Pos])  
INTEGER(Number)  
Internal Error Messages of Functions and Macro Commands  
ISDATE(Value)  
ISEMPTY(Reference)  
ISERROR(Reference)  
ISEVEN(Number)  
ISODD(Number)  
ISSTRING(Value)  
ISTIME(Value)  
ISVALUE(Value)  
K  
KEEP(String;List)  
KEY(Key;Command)  
Keyboard  
L  
LANGUAGE(Mode;Block)  
LAST(Range;...)  
LASTCOLUMN()  
LASTERROR()  
LASTROW()  
LCM(Number1;Number2)  
LEFT(Text;Length)  
Legend  
LENGTH(Text)  
LG(Number)  
LIMIT(X;a;b;V1;V2;V3)  
LINE(Line)  
Lines  
LISTREQUEST([Title];[Block])  
LN(Number)  
Load / Save  
LOAD([Name])  
LOADCONFIG([File])  
Locale  
LOCALE(NF1;NF2;DF;Currency;CPrefix;CSuffix;Inch)  
LOG(Number)  
LOG10(Number)  
LOOKUP(Value;Range;[Exact])

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LOOP()  
LOWER(Text)  
LRATE(Present Value;Future value;Term[;Frequency])  
M  
Macro Control  
Macro Instructions  
Macro Reference  
Macro  
MACRO(...)  
Macro/ARexx Instructions  
MACROPLAY(Cell)  
MADD(Block1;Block2;ResBlock)  
Mask  
MATCHES(Text;Pattern)  
Mathematical Functions  
MAX(Range[;])  
MELSE()  
MENDIF()  
Menu Commands  
Menu Commands  
Menu Reference  
Menu Shortcuts  
MESSAGE(Text[;Title])  
MID(Text;Position;Length)  
MIF(Condition)  
Migrating from TurboCalc 2  
Migrating from TurboCalc 3  
MIN(Range[;])  
MINUTE(Time)  
MINUTES(Time)  
MINVERSE(Number;Modulo)  
Misc  
Miscellaneous Commands  
Miscellaneous Functions  
MMUL(Block1;Block2;ResBlock)  
MOD(Number1;Number2)  
MONTH(Date)  
MONTHS(Date)  
MONTHTEXT(Date[;Abbreviation])

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MOVEWINDOW(X;Y)  
MSUB(Block1;Block2;ResBlock)  
N  
Names  
Names  
New Commands [TC3]  
New Commands  
New Functions [TC3]  
New Functions  
New View  
New Sheet  
New with TurboCalc 3.5  
New  
NEWMENU()  
NEWSHEET(Name)  
NEWWINDOW()  
NEXT()  
NOT(Value)  
NOTE(Note:[Cell])  
NOW()  
Numbers  
Numeric Format  
NUMERICFORMAT(Format:[Block])  
O  
Object Types  
Object  
OBJECT(Name;Type;Text;Value1;Value2;Block)  
Object-Editing  
OBJECTCLASS (Name)  
OBJECTINFO(Name;Nr)  
OBJECTPARA(Name;Macro;MacroActivation;Color;Frame;Background;Protection)  
OBJECTPOS(Name;X;Y;Width;Height)  
Objects  
OBJECTSELECT(Name)  
OBJID(text)  
OCT(String)  
ODD(Number)  
OLDCOLORS()  
Omission of all Parameters

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Omission of Parameters  
ONERROR(Cell)  
Open  
OPENFLAGS(NoAutoMacro;Hide;Password)  
Operation  
Operators  
Options  
Options  
OR(Value1; Value2;...)  
P  
Pagination  
Paper Format  
PAPERFORMAT()  
Parameters  
PART(Text;Position;Length)  
Paste - Formula  
Paste only  
Paste  
PASTE([Block])  
PASTEDATA(Mode;[Block])  
Paths  
Pattern  
PATTERN(Number;[Block])  
Patterns  
PERM(n;k)  
PI()  
PICK(Index;Range;...)  
PING(Index)  
Play  
Plus  
Plus, Minus  
PMT(Future value;Rate;Term[;Frequency])  
PONG(Index)  
Position Marking  
Postscript Output  
Postscript  
POSTSCRIPT()  
POSWINDOW()  
POSWINDOW2()

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POW(Base;Exponent)  
POW10(Exponent)  
Preference Form  
Preview  
Preview  
PREVIEW()  
Print Layout  
Print Preview  
Print Range  
Print  
Print  
PRINT(Printer;File;NLQ;Range;Page1;Page2;LPI;Colored;Break;Size;Width;Height;OType;FF)  
PRINTFORMAT(LM;RM;UM;BM;Style;Header;H-Text;Footer;F-Text;Title;Grid)  
Printing Charts  
Printing Sheets  
Printing  
PRINTRANGE(Activate;[Range])  
PROCALCINSERT([Block];[Name])  
PROCALCLOAD([Name])  
PRODUCT(Range[:])  
Programming  
Project  
Projects  
Protection  
Protection  
PROTECTION([Write];[Formula];[Block])  
PROTECTIONFLAGS(Active;Password)  
PS Fonts  
PSFONTLIST()  
PUT(Contents[:;Cell])  
PV(Future value;Rate;Term[:;Frequency])  
Q  
Quit  
QUIT([Flag])  
R  
RADTODEG(Angle)  
RANGEABS(Row;Column;Height;Width)  
RANGEHEIGHT(Range)  
RANGEWIDTH(Range)

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RANGEX([Range])  
RANGEY([Range])  
RECALC([Mode])  
Recalculate  
RECIPROCAL(Number)  
Record  
RECORD()  
Redo  
REDO()  
Redraw Sheet  
References Rel <-> Abs  
REFERENCESHIFT(X;Y;Flag;Block)  
REFERENCETYPE(Flag[;Block])  
REFRESH(Mode)  
REM ...  
Remove Cells  
Remove  
REMOVE(Data;[Block])  
Remove Sheet  
Rename Sheet  
REPEAT(Text;Number)  
REQPARA(X;Y;Oktext;Aborttext;Time)  
REQUEST(Text[;Title])  
Return Value of Commands  
RETURN([Cell])  
REVERSE(Text)  
REVISION()  
RIGHT(Text;Number)  
RND()  
RNDRANGE(Min;Max)  
ROMAN(Number)  
ROUND(Number;Places)  
ROUNDDOWN(Number;Places)  
ROUNDUP(Number;Places)  
Row Height  
ROWHEIGHT(Height;Block)  
ROWNUMBER(Range)  
ROWTITLE(Title;[Cell])  
RUN(File;Parameter;[Window])

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RX(File;Port)  
RXSYNC(File;Port)  
S  
Save as EPS  
Save as  
Save Block as  
Save  
Save  
SAVE([Name])  
SAVEAS([Name])  
SAVEBLOCK([Block];[Name])  
SAVECONFIG([File])  
Saving as IFF  
Saving your Work  
Saving  
Screen Control  
Screen Modes  
Screen  
SCREEN(Width;Height;Depth;Mode)  
SECOND(Time)  
SECONDS(Time)  
Select Mode  
SELECT([Block])  
Selecting a Cell  
Selecting Ranges  
SELECTSHEET(Name[;Windownumber])  
SELECTTOFRONT([Block])  
SELECTWAIT()  
SERIES(Type;Increment;Columns;Range)  
SETFONT(Font;Mode)  
Setting Names  
Settings and Configuration  
Settings  
Settings  
Settings  
SETTINGS()  
SETTINGS.PREVIEW()  
SETTINGS.RECALC()  
SETTINGS.SCREEN()

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SETTINGS.UNDO()  
SETxxx(Condition;Value1;Value2[;Reference])  
SHANGHAI(Mode)  
Sheet Encrypting  
Sheet Functions  
Sheet Settings  
Sheet Window  
Sheet  
Sheet  
SHEETFLAGS(Maxwidth;Maxheight;Calculation;Return;Direction;Icons)  
SHEETHIDE(Sheetname;Windownumber)  
SHEETNAME()  
SHEETNAME2()  
SHEETSETTINGS()  
SHEETSHOW(Sheetname;Windownumber)  
Shift References  
SHIFTL(Text)  
SHIFTR(Text)  
Show active Cell  
Show Chart  
Show Sheet  
Show Sheet-Window  
Show  
SHOW(Row;[Block])  
SHOWMENU()  
SIGN(Number)  
SIMILAR(Text1;Text2)  
SIN(Angle)  
SINHYP(Number)  
SIZEWINDOW(Width;Height)  
SmartOpen  
SmartOpen  
SmartRefresh  
SMARTREFRESH(Flag)  
Sort Database  
Sort Range  
SORT(Ascending;Direction;Cell;Block)  
Sorting Data Records  
Sorting.dat

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Special ARexx-Commands  
Special Macro Commands  
SPECIALFLAGS(Flags)  
SQR(Number)  
SQRT(Number)  
Start  
START(Filename)  
Starting TurboCalc  
Status Line  
STDCOLORS()  
STDEV(Range[;])  
STDFONT(Font)  
STEP([Flag])  
Stop Playing  
Stop Recording  
Stop  
STOPRECORD()  
SUM(Range[;])  
SYLKINSERT([Block];[Name])  
SYLKLOAD([Name])  
SYLKSAVE([Name])  
SYLKSAVEBLOCK([Block];[Name])  
SYSINFO()  
T  
TAN(Angle)  
TANHYP(Number)  
TCDINSERT([Block];[Name])  
TCFUNCTION(TCLib;Offset;Num1;Num2;Text)  
TCMACRO(TCLib;Offset;Num1;Num2;Text)  
TERM(Future value;Payment;Rate;[;Frequency])  
Text Entry  
Text Functions  
Text  
TEXT(Data[;Format])  
The Search Criteria  
TIMEVALUE(Text)  
Title Freezing  
Title  
Title

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TOBIN(Number)  
TODAY()  
TOHEX(Number)  
TOOCT(Number)  
Toolbar  
Toolbar  
TOOLBAR()  
Topics  
Translate Formulas  
TRANSLATE(String;Text1[;Text2])  
Transpose  
TRANSPOSE([Block])  
Tricks to Improve your Printouts  
TRIM(Text)  
TRUE()  
TurboCalc Libraries  
TurboCalc  
TurboCalc-Sheets  
Tutorial  
TWOFAC(Number)  
U  
UNCHANGED()  
Undo  
Undo  
UNDO()  
UNTIL(Condition)  
UPPER(Text)  
UPPER2(Text)  
V  
VALUE(Text)  
VAR(Range[;])  
VARIABLE(Name;Value)  
VERSION()  
View Settings  
View  
VLOOKUP(Value;Range;Offset;[Exact])  
W  
WEEKDAY(Date)  
WEEKDAYTEXT(Date[;Abbreviation])

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WHILE(Condition)

WINDOWTOBACK()

WINDOWTOFRONT()

WORD(Text;Number)

WORDS(Text)

X

XOR(Value1;Value2;...)

Y

Y-Axis

YEAR(Date)

Z

Zoom

Zoom

ZOOM(ZoomX[:ZoomY])

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