Input/Output

I/O standard

In[n] is a global object that is assigned to have a delayed value of the nth input line.

%n or Out[n] is a global object that is assigned to be the value produced on the nth output line. % gives the last result generated. %% gives the result before last. %%...% (k times) gives the kth previous result.

Input[ ] interactively reads in one Mathematica expression.
Input["prompt"] requests input, using the specified string as a prompt.

InputString[ ] interactively reads in a character string.
InputString["prompt"] requests input, using the specified string as a prompt.

Print[expr1, expr2, ...] prints the expri, followed by a newline (line feed).

I/O su file

<<name reads in a file, evaluating each expression in it, and returning the last one.

expr >> filename writes expr to a file.
Put[expr1, expr2, ..., "filename"] writes a sequence of expressions expri to a file.

expr >>> filename appends expr to a file.
PutAppend[expr1, expr2, ..., "filename"] appends a sequence of expressions expri to a file.

Save["filename", symb1, symb2, ...] appends the definitions of the symbols symbi to a file.

Forme speciali

NumberForm[expr, n] prints with approximate real numbers in expr given to n-digit precision.

PaddedForm[expr, n] prints with all numbers in expr padded to leave room for a total of n digits.
PaddedForm[expr, {n, f}] prints with approximate real numbers having exactly f digits to the right of the decimal point.

MatrixForm[list] prints with the elements of list arranged in a regular array.

ColumnForm[{e1, e2, ...}] prints as a column with e1 above e2, etc.
ColumnForm[list, horiz] specifies the horizontal alignment of each element.
ColumnForm[list, horiz, vert] also specifies the vertical alignment of the whole column.

StringForm["controlstring", expr1, ...] prints as the text of the controlstring, with the printed forms of the expri embedded.

InputForm[expr] prints as a version of expr suitable for input to Mathematica.

OutputForm[expr] prints as the standard Mathematica output form for expr.

PrintForm[expr] returns the internal printform representation of expr.

FullForm[expr] prints as the full form of expr, with no special syntax.

HoldForm[expr] prints as the expression expr, with expr maintained in an unevaluated form.

Flussi

OpenWrite["file"] opens a file to write output to it, and returns an OutputStream object.

OpenAppend["file"] opens a file to append output to it, and returns an OutputStream object.

OpenRead["file"] opens a file to read data from, and returns an InputStream object.

OpenTemporary[ ] opens a temporary file to which output can be written, and returns an OutputStream object.

Close[stream] closes a stream.

InputStream["name", n] is an object that represents an input stream for functions such as Read and Find.

OutputStream["name", n] is an object that represents an output stream for functions such as Write.

Read[stream] reads one expression from an input stream, and returns the expression.
Read[stream, type] reads one object of the specified type.
Read[stream, {type1, type2, ...}] reads a sequence of objects of the specified types.

ReadList["file"] reads all the remaining expressions in a file, and returns a list of them.
ReadList["file", type] reads objects of the specified type from a file, until the end of the file is reached. The list of objects read is returned.
ReadList["file", {type1, type2, ...}] reads objects with a sequence of types, until the end of the file is reached.
ReadList["file", types, n] reads only the first n objects of the specified types.

Write[channel, expr1, expr2, ...] writes the expressions expri in sequence, followed by a newline, to the specified output channel.

WriteString[channel, expr1, expr2, ...] converts the expri to strings, and then writes them in sequence to the specified output channel.

Display[channel, graphics] writes graphics or sound to the specified output channel.

StreamPosition[stream] returns an integer which specifies the position of the current point in an open stream.

SetStreamPosition[stream, n] sets the current point in an open stream.

StringToStream["string"] opens an input stream for reading from a string.