



 AHELP for CIAO 3.4

`_slang_guess_type`

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Synopsis

Guess the data type that a string represents.

Syntax

```
DataType_Type _slang_guess_type (String_Type s)
```

Description

This function tries to determine whether its argument `s` represents an integer (short, int, long), floating point (float, double), or a complex number. If it appears to be none of these, then a string is assumed. It returns one of the following values depending on the format of the string `s`:

<code>Short_Type</code>	: short integer	(e.g., "2h")
<code>UShort_Type</code>	: unsigned short integer	(e.g., "2hu")
<code>Integer_Type</code>	: integer	(e.g., "2")
<code>UInteger_Type</code>	: unsigned integer	(e.g., "2")
<code>Long_Type</code>	: long integer	(e.g., "2l")
<code>ULong_Type</code>	: unsigned long integer	(e.g., "2l")
<code>Float_Type</code>	: float	(e.g., "2.0f")
<code>Double_Type</code>	: double	(e.g., "2.0")
<code>Complex_Type</code>	: imaginary	(e.g., "2i")
<code>String_Type</code>	: Anything else.	(e.g., "2foo")

For example, `_slang_guess_type("1e2")` returns `Double_Type` but `_slang_guess_type("e12")` returns `String_Type`.

See Also

slangrtl

[print_stack](#), [typeof](#), [atof](#), [char](#), [double](#), [int](#), [integer](#), [isdigit](#), [set_float_format](#), [sprintf](#), [sscanf](#), [string](#), [typecast](#), [typeof](#)

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