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sci2map

Scilab to Maple variable conversion


Syntax


```
txt = sci2map(a,Map-name)
```

Arguments

a

Scilab object: numbers, polynomials, rationals, texts, list.

 Numbers, polynomials, or rationals with complex or %inf or %nan coefficients are supported.

 Hypermatrices are not converted.

Map-name

string (name of the Maple variable)

txt

Column vector of strings containing the corresponding Maple code

Description

Makes Maple code necessary to send the Scilab variable `a` to Maple: the name of the variable in Maple is `Map-name`.

A Maple procedure `maple2scilab` can be found in `./src/maple/maple2scilab.mpl` directory.

Examples

Real numbers conversion:

```
sci2map([2 %e ; %pi %eps], "n")
```

```
--> sci2map([2 %e ; %pi %eps], "n")
ans =
!n := array(1..2,1..2);      !
!n[1,1] := 2;                !
!n[1,2] := 2.71828182845904510; !
!n[2,1] := 3.14159265358979310; !
!n[2,2] := 0.00000000000000022; !
```

Complex numbers:

```
sci2map([-10+%i ; 2*%pi*i], "c")
```



```
--> sci2map([-10+%i ; 2*%pi*i], "c")
ans =
!c := array(1..2,1..1);           !
!c[1,1] := -10 + I*(1);           !
!c[2,1] := 0 + I*(6.28318530717958620); !
```

Special values:

```
sci2map([1e-310 %inf -%inf %nan], "sv")
```



```
--> sci2map([1e-310 %inf -%inf %nan], "sv")
ans =
!sv := array(1..1,1..4);           !
!sv[1,1] := 1.0000000000000D-310; !
!sv[1,2] := Inf;                   !
!sv[1,3] := -Inf;                  !
!sv[1,4] := Nan;                   !
```

Text conversion:

```
sci2map(["Hello" "That's it" "C:\this\name"], "t")
```



```
--> sci2map(["Hello" "That's it" "C:\this\name"], "t")
ans =
!t := array(1..1,1..3);           !
!t[1,1] := `Hello`;              !
!t[1,2] := `That's it`;          !
!t[1,3] := `C:\this\name`;       !
```

Polynomials conversion:

```
sci2map((1-%z).^[1 2 3], "p")
```



```
--> sci2map((1-%z).^[1 2 3], "p")
ans =
!p := array(1..1,1..3);           !
!p[1,1] := 1+z*(-1);              !
!p[1,2] := 1+z*(-2+z);           !
!p[1,3] := 1+z*(-3+z*(3+z*(-1))); !
```

Rationals conversion:

```
sci2map(%z/(1-%z), "r")
```



```
--> sci2map(%z/(1-%z), "r")
ans =
r := (z) / (1+z*(-1));
```

See Also

- [Scimax](#): Maxima from Scilab