

Need for PUT(X, Y) and INPUT(X, Y) Functions to process numbers

To: Output Variable **Type Expression**

From: Input Data Type	New: Character Variable	New: Numeric Variable
Character Variables w/ chars or <u>nums</u>	① PUT(X, Y)	③ INPUT(X , Y)
Numeric Variables w/ <u>nums</u>	② PUT(X , Y)	PROC FORMAT;

Numeric variables used in character variable expression or format.
Issue Ex.
213 || 'Goldenwood Circle';

Numbers stored in character variables used in numeric calculations.
Issue Ex. '2' + '2' = 4;

10

- Depends on your (1) source variable type, your (2) data values and your (3) final variable type (character vs. numeric).
- Rule 1: Use PUT() function with format to convert character/numeric variables/values to character variables.
- Rule 2: Use INPUT() function with informat to convert character variables/values to character/numeric variables.

Function Call	Raw Type	Raw Value	Returned Type	Returned Value
PUT(name, \$10.); ①	char, char format	'Richard'	char always	'Richard '
PUT(age, 4.); ②	num, num format	30	char always	' 30'
PUT(name, ① \$nickname.); User Defined Format	char, char format	'Richard'	char always	'Rick'
INPUT(agechar, 4.); ③	char always	'30'	num, num informat	30
INPUT(agechar, \$4.);	char always	'30'	char, char informat	' 30'
INPUT(cost, comma7.); ③	char	'100,541'	num, num	100541

	always		informat	
--	---------------	--	----------	--