

Distributions	R Name	$\mu$	$\sigma$	$\nu$	$\tau$
beta	BE()	logit	logit	-	-
Box-Cox Cole and Green	BCCG()	identity	log	identity	-
Box-Cox power exponential	BCPE()	identity	log	identity	log
Box-Cox $t$	BCT()	identity	log	identity	log
exponential	EXP()	log	-	-	-
exponential Gaussian	exGAUS()	identity	log	log	-
exponential gen. beta type 2	EGB2()	identity	identity	log	log
gamma	GA()	log	log	-	-
generalized beta type 1	GB1()	logit	logit	log	log
generalized beta type 2	GB2()	log	identity	log	log
generalized gamma	GG()	log	log	identity	-
generalized inverse Gaussian	GIG()	log	log	identity	-
generalized $t$	GT()	identity	log	log	log
Gumbel	GU()	identity	log	-	-
inverse Gaussian	IG()	log	log	-	-
Johnson's SU ( $\mu$ the mean)	JSU()	identity	log	identity	log
Johnson's original SU	JSUo()	identity	log	identity	log
logistic	LO()	identity	log	-	-
log normal	LOGNO()	log	log	-	-
log normal (Box-Cox)	LNO()	log	log	fixed	-
NET	NET()	identity	log	fixed	fixed
normal	NO()	identity	log	-	-
normal family	NOF()	identity	log	identity	-
power exponential	PE()	identity	log	log	-
reverse Gumbel	RG()	identity	log	-	-
skew power exponential type 1	SEP1()	identity	log	identity	log
skew power exponential type 2	SEP2()	identity	log	identity	log
skew power exponential type 3	SEP3()	identity	log	log	log
skew power exponential type 4	SEP4()	identity	log	log	log
sinh-arcsinh	SHASH()	identity	log	log	log
skew $t$ type 1	ST1()	identity	log	identity	log
skew $t$ type 2	ST2()	identity	log	identity	log
skew $t$ type 3	ST3()	identity	log	log	log
skew $t$ type 4	ST4()	identity	log	log	log
skew $t$ type 5	ST5()	identity	log	identity	log
$t$ Family	TF()	identity	log	log	-
Weibull	WEI()	log	log	-	-
Weibull (PH)	WEI2()	log	log	-	-
Weibull ( $\mu$ the mean)	WEI3()	log	log	-	-

Table 1: Continuous distributions implemented within the **gamlss** packages (with default link functions)

Distributions	R Name	$\mu$	$\sigma$	$\nu$
beta binomial	BB()	logit	log	-
binomial	BI()	logit	-	-
logarithmic	LG()	logit	-	-
Delaporte	DEL()	log	log	logit
negative binomial type I	NBI()	log	log	-
negative binomial type II	NBII()	log	log	-
Poisson	PO()	log	-	-
Poisson inverse Gaussian	PIG()	log	log	-
Sichel	SI()	log	log	identity
Sichel ( $\mu$ the mean)	SICHEL()	log	log	identity
zero altered beta binomial	ZABB()	logit	log	logit
zero altered binomial	ZABI()	logit	logit	-
zero altered logarithmic	ZALG()	logit	logit	-
zero altered neg. binomial	ZANBI()	log	log	logit
zero altered poisson	ZAP()	log	logit	-
zero inflated beta binomial	ZIBB()	logit	log	logit
zero inflated binomial	ZIBI()	logit	logit	-
zero inflated neg. binomial	ZINBI()	log	log	logit
zero inflated poisson	ZIP()	log	logit	-
zero inflated poisson ( $\mu$ the mean)	ZIP2()	log	logit	-
zero inflated poisson inv. Gaussian	ZIPIG()	log	log	logit

Table 2: Discrete distributions implemented within the **gamlss** packages (with default link functions)

beta inflated (at 0)	BEOI()	logit	log	logit	-
beta inflated (at 0)	BEINFO()	logit	logit	log	-
beta inflated (at 1)	BEZI()	logit	log	logit	-
beta inflated (at 1)	BEINF1()	logit	logit	log	-
beta inflated (at 0 and 1 )	BEINF()	logit	logit	log	log
zero adjusted GA	ZAGA()	log	log	logit	-
zero adjusted IG	ZAIG()	log	log	logit	-

Table 3: Mixed distributions implemented within the **gamlss** packages (with default link functions)