

Dimensions of version 10.0.2b

The **Standard** version has the following dimensions:

Param	Description	Dimension
zsim	Series for forward simulation	200
zleq	Opennings for backward recursion	200
zord	Order of the autoregressive model for inflows	6
zper	Stages	360
zano	Years	30
zpxa	Stages per year	52
zesc	Load blocks	5
zbcpr	Load blocks for short term studies	168
zite	Iterations	100
zcut	Benders cuts	800
zsis	Systems	15
zint	Interconnections	50
zplt	Hydro plants	300
zdam	Reservoirs	200
zter	Thermal plants	300
zclp	Segments in the cost function of thermal plants	3
zfue	Fuels	210
zgm	Thermal minimum generation constraints	300
zbus	Buses	300
zgen	Generators	600
zslk	Reference bus	1
zlin	Circuits	300
zlnk	DC Link	10
zlic	DC Link with limit curve	10
zare	Electric areas	20
zfil	Elements off-diagonal in the network matrix	1500
zlig	Circuits per bus	30
zkol	Non zero elements in the network matrix	1500
zcnt	Circuits contingencies	10
zmon	Monitored circuits per contingency	5
zfmt	Formats per routine	150
zrot	Routines	300
zman	Maintenance structure	72360
zmoh	Hydro modification structure	18000
zmot	Thermal modification structure	18000
zmoi	Interconnection modification structure	400
zmol	DC Link modification structure	52
zmob	Bus modification structure	18000
zmoc	Circuits modification structure	18000
zmoa	Export&import by area structure	7200
ztrt	Thermal plants with temperature variation	150
ztrd	Thermal plants with spinning reserve	300
zhrd	Hydro plants with spinning reserve	300
zseq	Equivalent reservoir	10
zdis	buy/sale table discretizations	21
zpir	Period of reduced uncertainty	10
zcon	Contracts	40
ztrf	Transformers	30
zphs	Phase shifter transformers	1
zrgr	Generation constraints	100
zrgg	Elements by generation constraint	20
zclu	Clusters of spot price scenarios	15
ztfi	Maxrev transactions	4
zneb	External number for buses	32767
zls	Micro-iterations for quadratic losses	10
zrag	Generation reserve constraints	100
zcmt	Commitment thermal plants	300
zrsc	Circuits flow sum constraint	20
zsuc	Elements by circuits flow sum constraints	20
zmoc	Circuit flow sum constraints modifications	1200
zrsi	Interchange sum constraint	20
zsui	Elements by interchange sum constraint	20
zmoc	Interchange sum constraint modifications	1200
maxc	Maximum number of columns	25625
maxr	Maximum number of rows	4775
maxel	Maximum number of non-zero elements	2027110
maxspc	Maximum working space - Solver	600000

The **Big** version presents the following differences in the dimensions compared to the **Standard** version:

Param	Description	Dimension
zper	Stages	480
zano	Years	40
zsis	Systems	150
zint	Interconections	150
zter	Thermal plants	500
zgmn	Thermal minimum generation constraints	500
zbus	Buses	700
zgen	Generators	800
zlin	Circuits	900
zlnk	DC Link	20
zfil	Elements off-diagonal in the network matrix	4500
zlig	Circuits per bus	70
zkol	Non zero elements in the network matrix	4500
zman	Maintenance structure	115680
zmoh	Hydro modification structure	24000
zmot	Thermal modification structure	40000
zmob	Bus modification structure	56000
zmoc	Circuits modification structure	72000
zmoa	Export&import by area structure	9600
ztrt	Thermal plants with temperature variation	250
ztrd	Thermal plants with spinning reserve	500
zcmt	Commitment thermal plants	500
zrsc	Circuits flow sum constraint	100
zsuc	Elements by circuits flow sum constraints	25
zmoc	Circuit flow sum constraints modifications	5000
zmsi	Interchange sum constraint modifications	1600
maxc	Maximum number of columns	65885
maxr	Maximum number of rows	10450
maxel	Maximum number of non-zero elements	8513135

The **BigCut** version presents the following differences in the dimensions compared to the **Big** version:

Param	Description	Dimension
zcut	Benders cuts	8000
zloss	Micro-iterations for quadratic losses	1
maxr	Maximum number of rows	17650
maxel	Maximum number of non-zero elements	11033135