

Table 4 **Glossary of variables** used in the generic case called "equivellipse" corresponding to the GENOPT user's interactive input to "GENTEXT" listed in Table 3. The complete glossary generated by GENOPT upon the GENOPT user's completion of the entire "GENTEXT" interactive session is listed in Table 2 and forms part of the file, equivellipse.DEF, which is listed in Table a2 in the appendix. ("equivellipse" is the generic name selected by the GENOPT user for the class of objects to be optimized). See Table 1 for definitions of "ROLE", and see the next table for more on "PROMPT NUMBER" (the partial equivellipse.PRO file).

ARRAY ?	NUMBER OF (ROWS,COLS)			ROLE	PROMPT NUMBER	NAME	DEFINITION OF VARIABLE
(equivellipse.PRO)							
n	(	0,	0)	2	10	npoint	= number of x-coordinates
n	(	0,	0)	2	15	Ixinput	= vector element number for xinput in xinput(Ixinput)
y	(	21,	0)	2	20	xinput	= x-coordinates for ends of segments
n	(	0,	0)	2	25	ainput	= length of semi-major axis
n	(	0,	0)	2	30	binput	= length of semi-minor axis of ellipse
n	(	0,	0)	2	35	nodes	= number of nodal points per segment
n	(	0,	0)	2	40	xlimit	= max. x-coordinate for x-coordinate callouts
y	(	21,	0)	1	45	THKSKN	= skin thickness at xinput
y	(	21,	0)	1	50	HIGHST	= height of isogrid members at xinput
n	(	0,	0)	1	55	SPACNG	= spacing of the isogrid members
n	(	0,	0)	1	60	THSTIF	= thickness of an isogrid stiffening member
n	(	0,	0)	2	65	THKCYL	= thickness of the cylindrical shell
n	(	0,	0)	2	70	RADCYL	= radius of the cylindrical shell