



Fig. 24 STAGS prediction of the outer fiber effective stress of the locally post-buckled panel at the design load, $PA = 10.0$ ($N_x = -1000$ lb/in), for the curved panel in which overall axial bending is permitted ($IBCX0XL = 0$ in the *.STG file that, via execution of the PANDA2 processor, STAGSUNIT, generates the *.bin and *.inp input files for STAGS) in the post-local-buckling loading regime and in-plane warping of the panel skin along the four panel edges is prevented. The stress concentrations in the panel skin are especially well exposed in the neighborhood of the third stringer numbering from the bottom right-hand edge of the STAGS model. The outer fiber in the curved panel with the internal stringers is the fiber on the opposite surface of the panel skin from that to which the stringer is attached. With curved, internally stringer-stiffened panels the outer fiber maximum effective stress is greater than the inner fiber maximum effective stress, to be shown next.

