



Figure 30: Computed streamlines and total pressure contours (Case DF2) using  $k-\epsilon$  Chien model

Table 6: Double Fin Cases

<i>Case</i>	<i>Ref</i>	$p_4/p_1$	$M_\infty$	$\alpha_1$	$\alpha_2$	$Re_{\delta_\infty}$ ( $\times 10^5$ )	$L_2/L_1$	$L_3/L_1$	$\delta_\infty/L_2$	$T_w/T_{aw}$
DF1	[36]	3.4	4.0	7°	7°	3.1	0.45	0	0.11	1.11
DF2	[36]	4.6	4.0	7°	11°	3.0	0.44	0.014	0.11	1.11
DF3	[37]	10.2	3.9	15°	15°	2.6	0.32	0	0.11	1.06
DF4	[38]	45.0	8.3	15°	15°	1.6	0.28	0	0.75	0.28

		LEGEND	
$M_\infty$	Freestream Mach number	$\alpha_1, \alpha_2$	Fin angles
$Re_{\delta_\infty}$	$\rho_\infty U_\infty \delta_\infty / \mu_\infty$	$L_1$	Distance between fins at entrance
$L_2$	Distance between fins at throat	$L_3$	Offset of TML
TML	Throat Middle Line	$T_w$	Wall temperature
$T_{aw}$	Adiabatic wall temperature		