

Résultats du logiciel 'Riemann9' pour le tube de Sod
 test1 : on va jusqu'a $t=0,142$; on utilise le schéma de Godunov

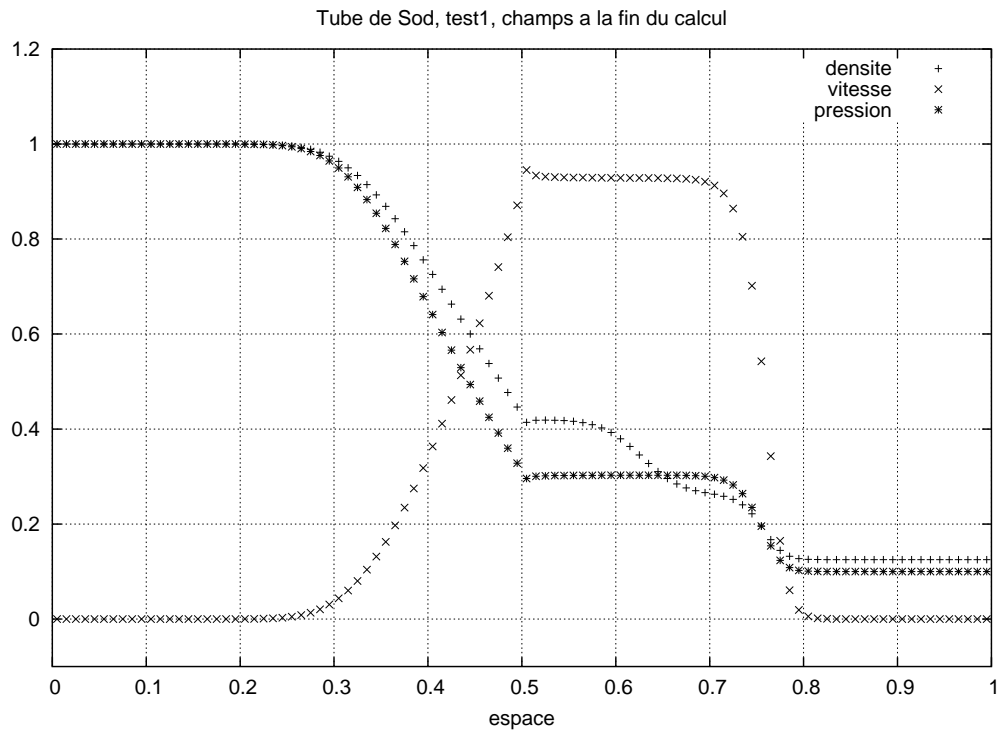


Figure 1 Tube de Sod, 100 mailles, schéma de Godunov

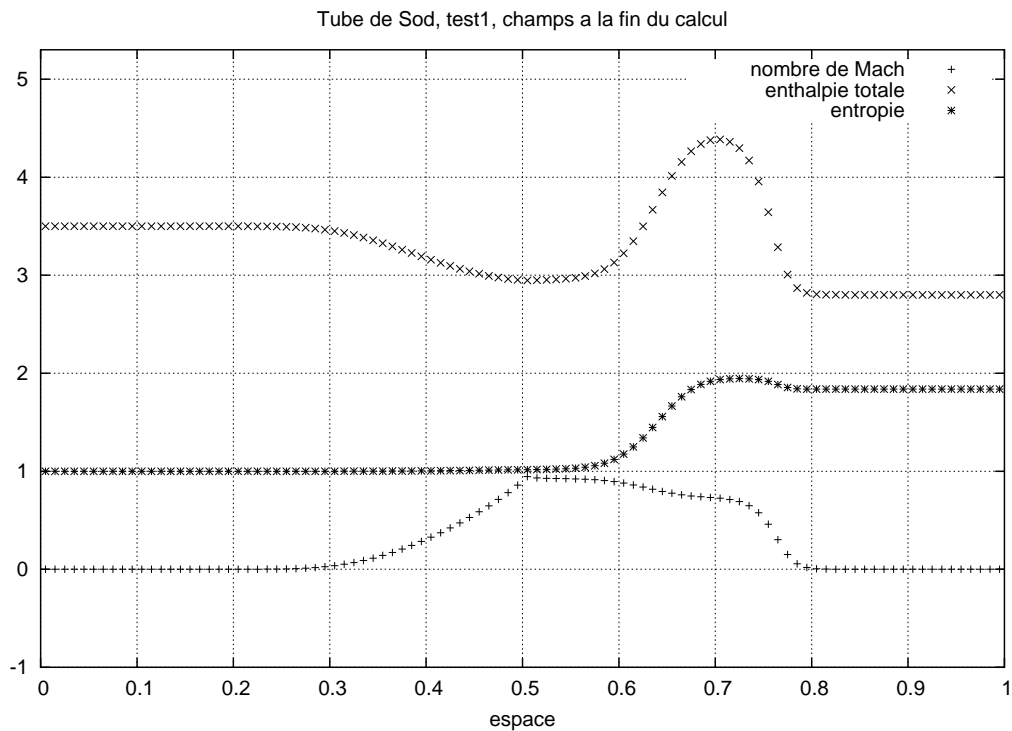


Figure 2 Tube de Sod, 100 mailles, schéma de Godunov

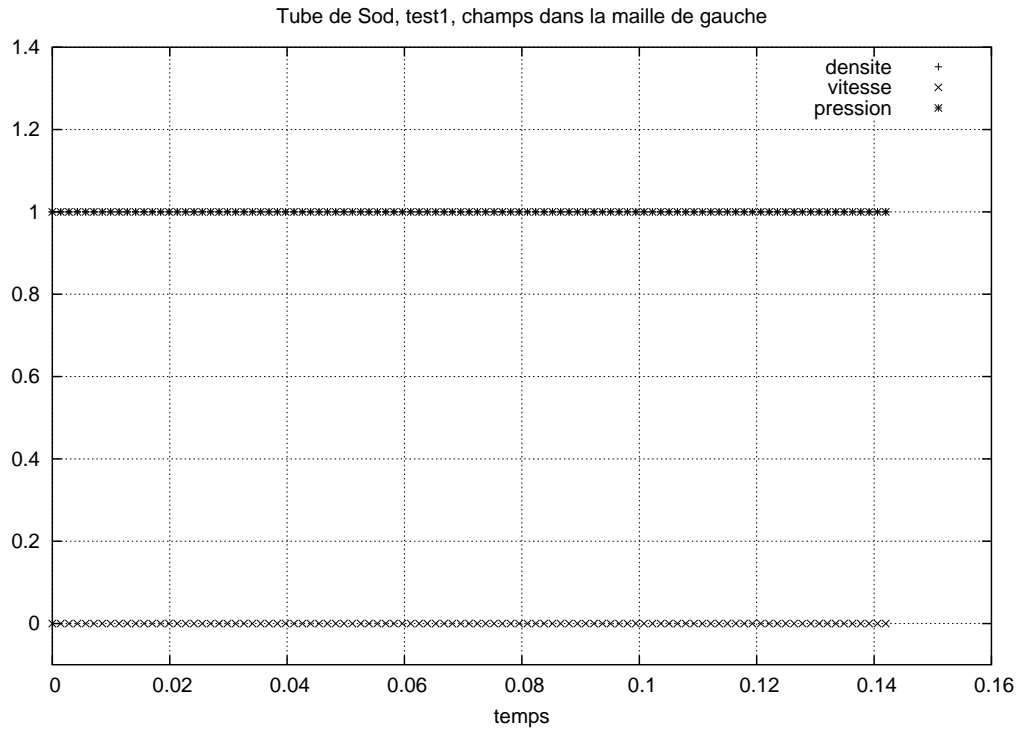


Figure 3 Tube de Sod, 100 mailles, schéma de Godunov

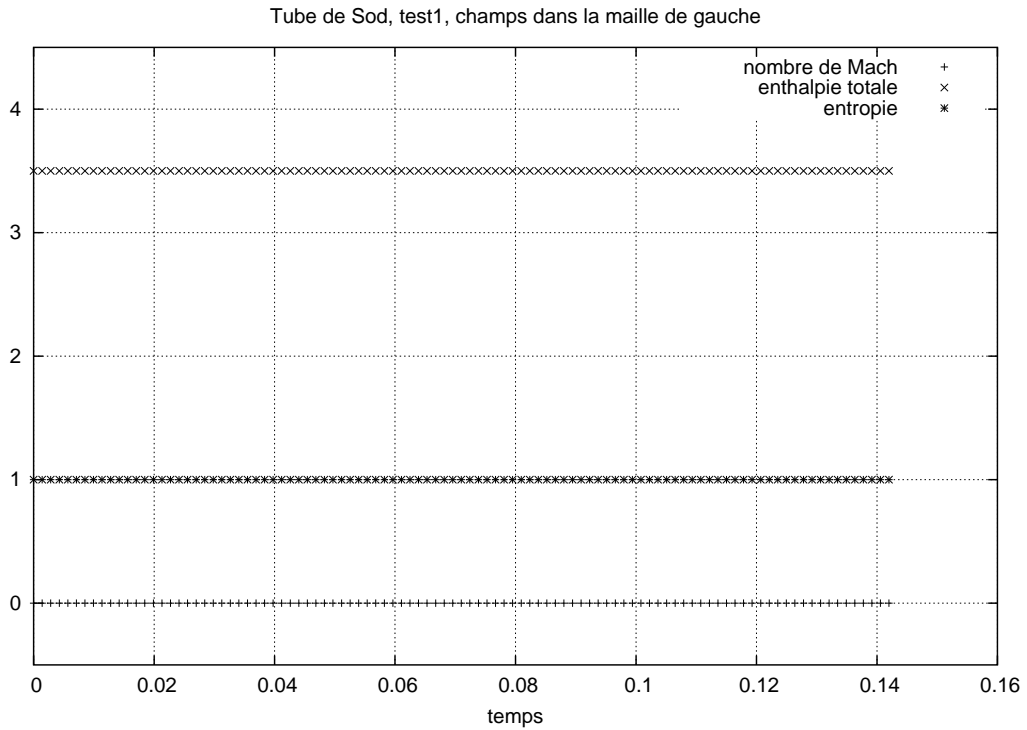


Figure 4 Tube de Sod, 100 mailles, schéma de Godunov

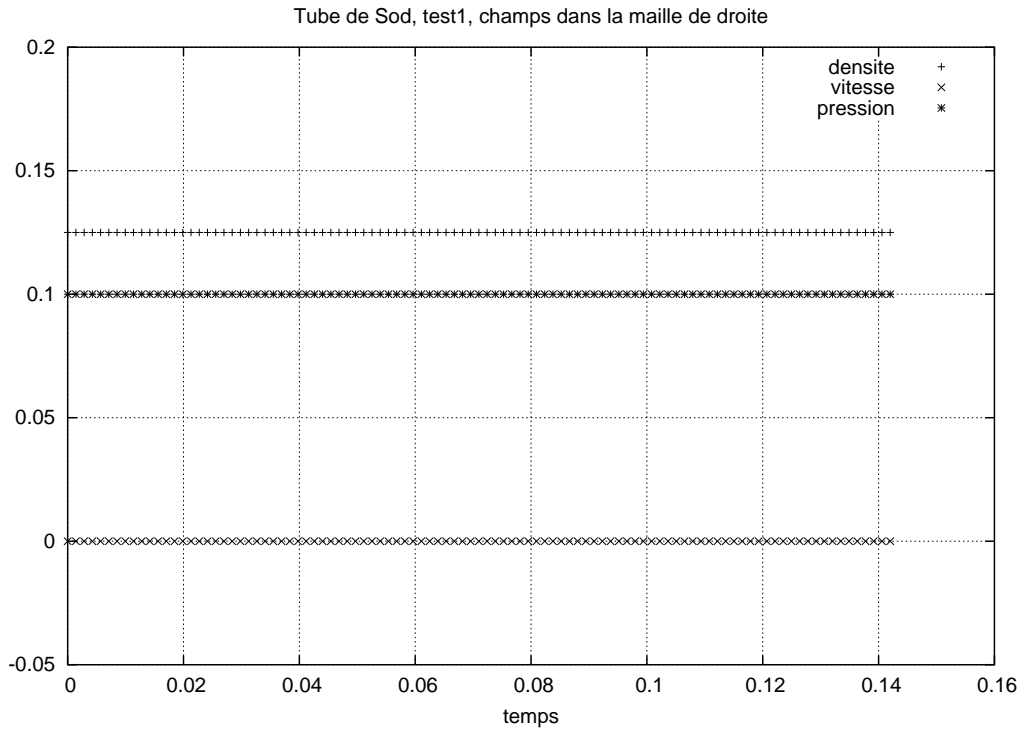


Figure 5 Tube de Sod, 100 mailles, schéma de Godunov

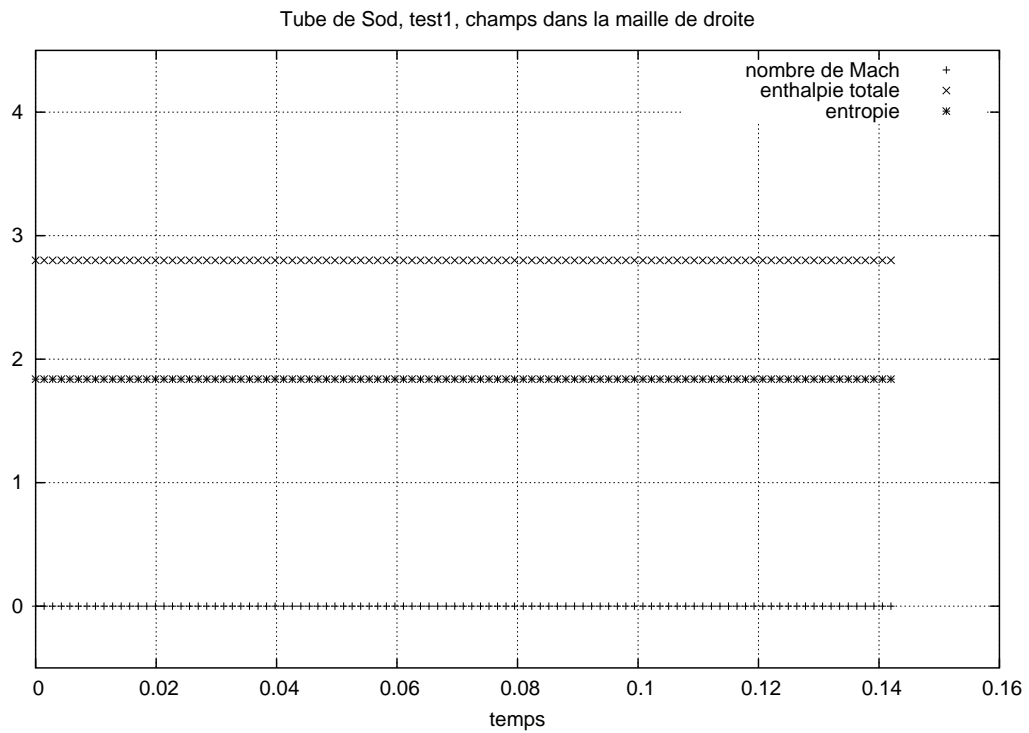


Figure 6 Tube de Sod, 100 mailles, schéma de Godunov

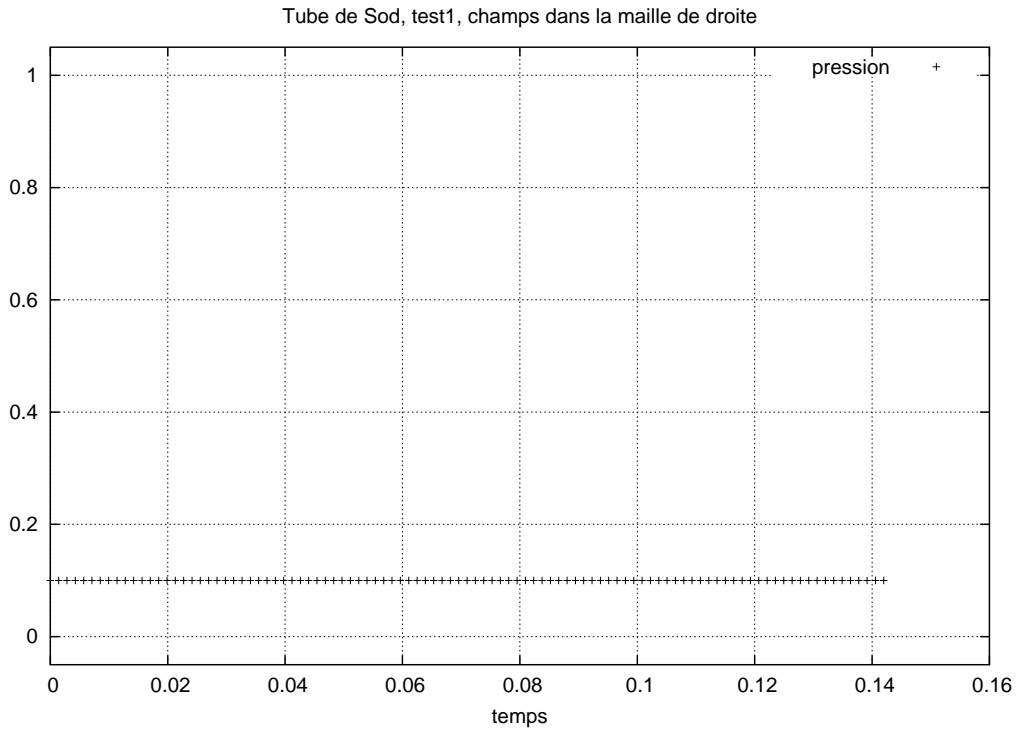


Figure 7 Tube de Sod, 100 mailles, schéma de Godunov

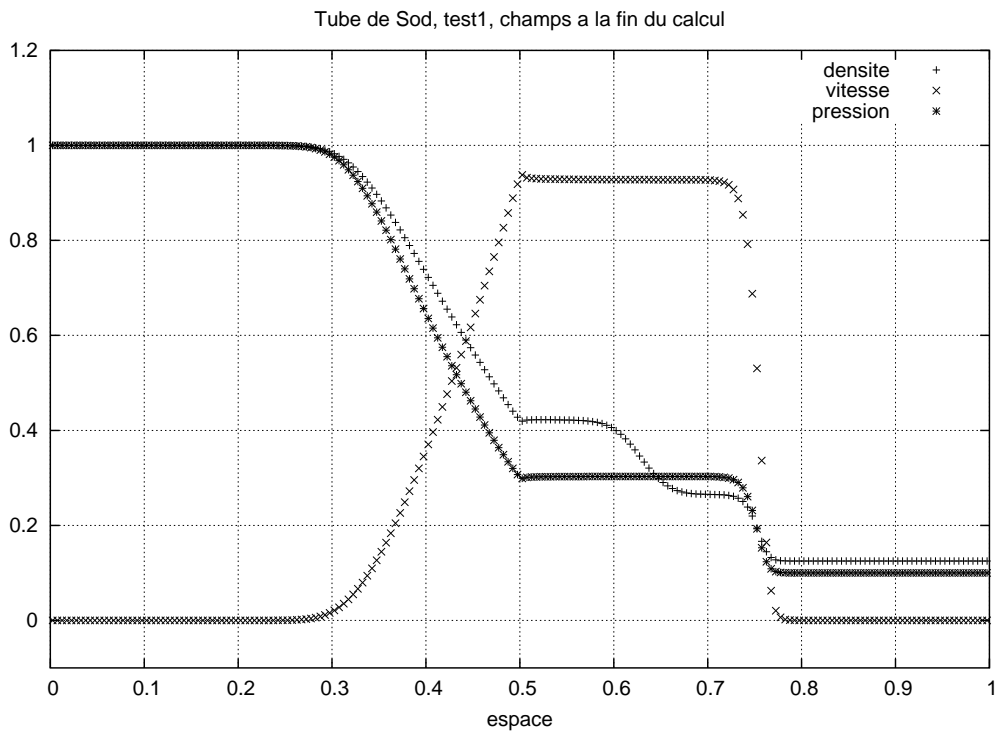


Figure 8 Tube de Sod, 200 mailles, schéma de Godunov

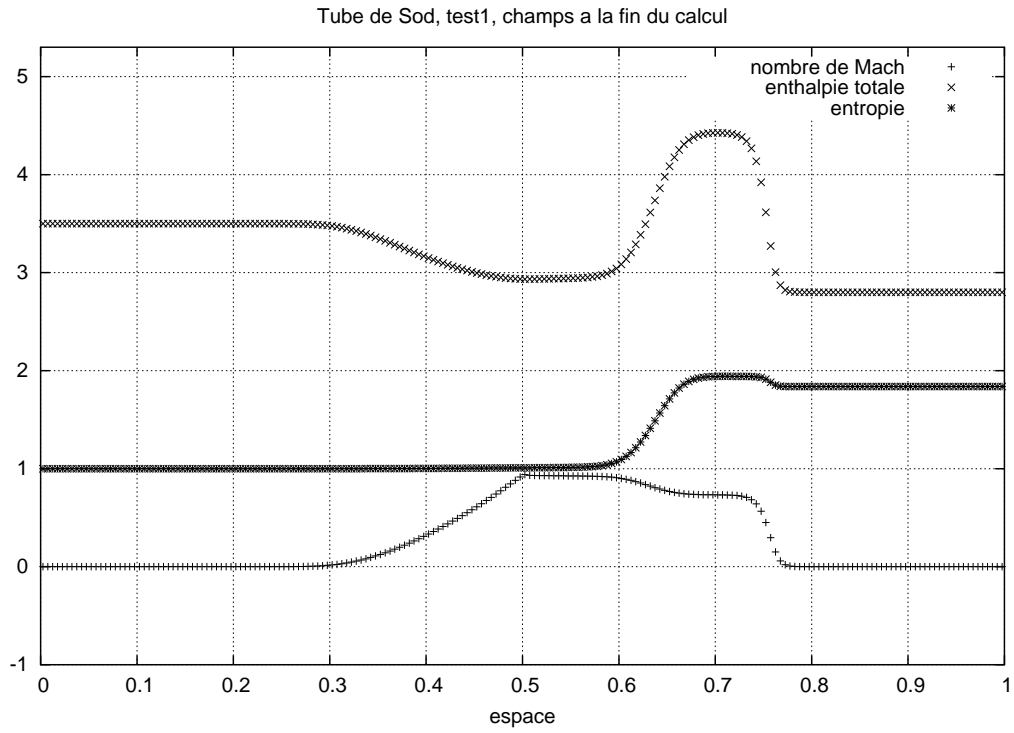


Figure 9 Tube de Sod, 200 mailles, schéma de Godunov

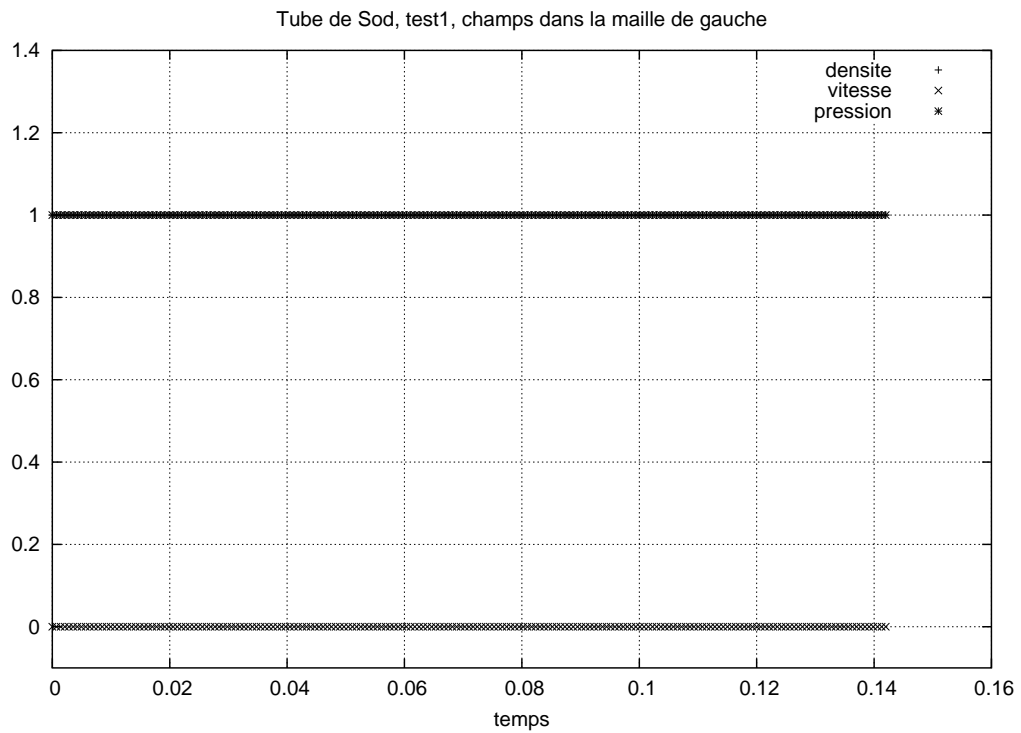


Figure 10 Tube de Sod, 200 mailles, schéma de Godunov

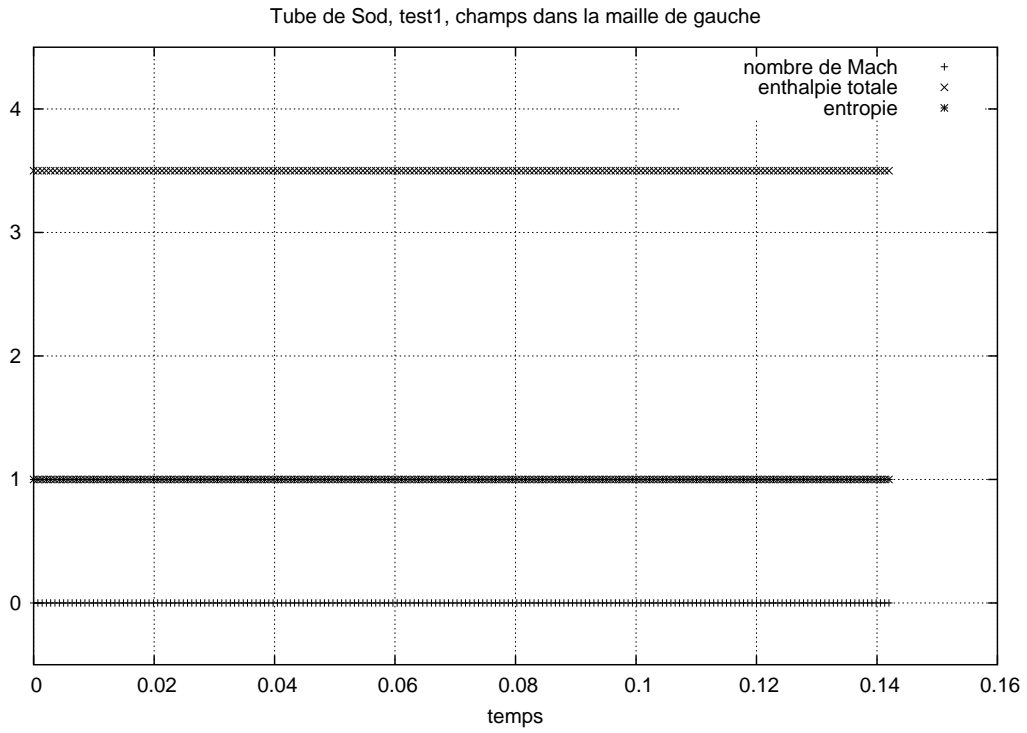


Figure 11 Tube de Sod, 200 mailles, schéma de Godunov

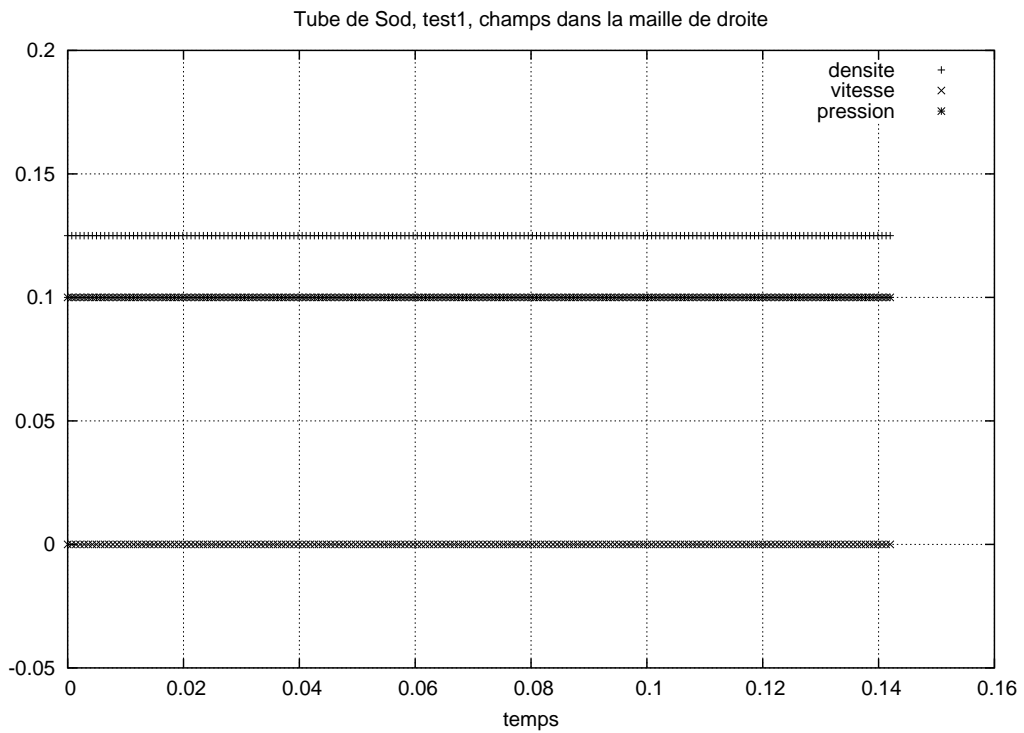


Figure 12 Tube de Sod, 200 mailles, schéma de Godunov

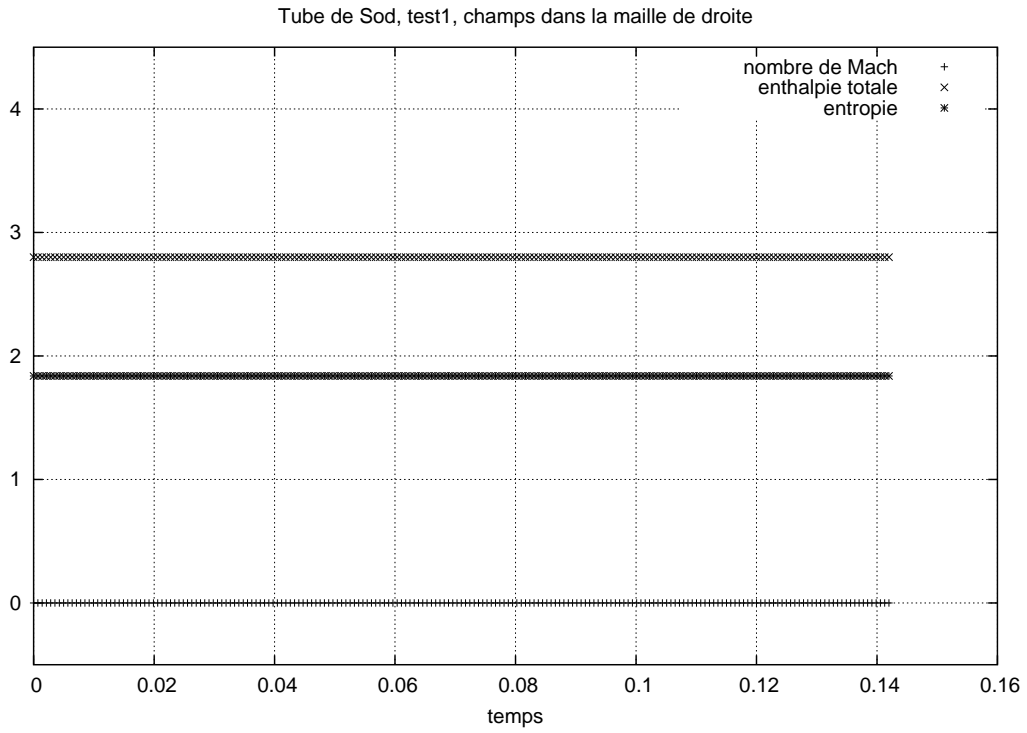


Figure 13 Tube de Sod, 200 mailles, schéma de Godunov

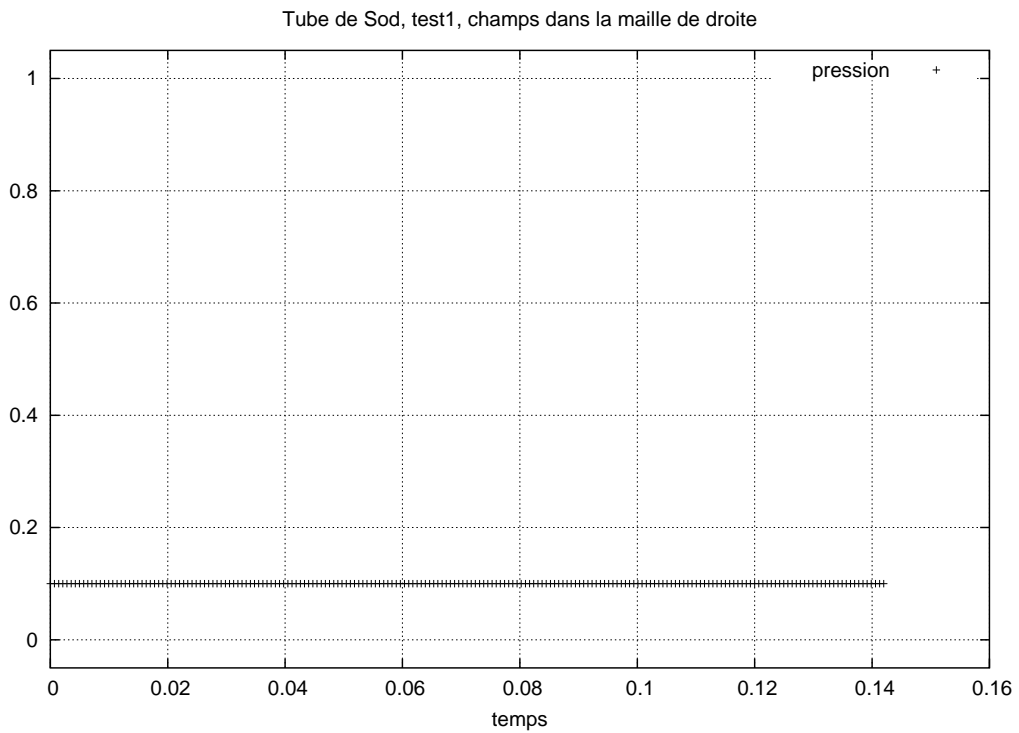


Figure 14 Tube de Sod, 200 mailles, schéma de Godunov

test2 : on va jusqu'a $t=1,42$ avec le schéma de Godunov

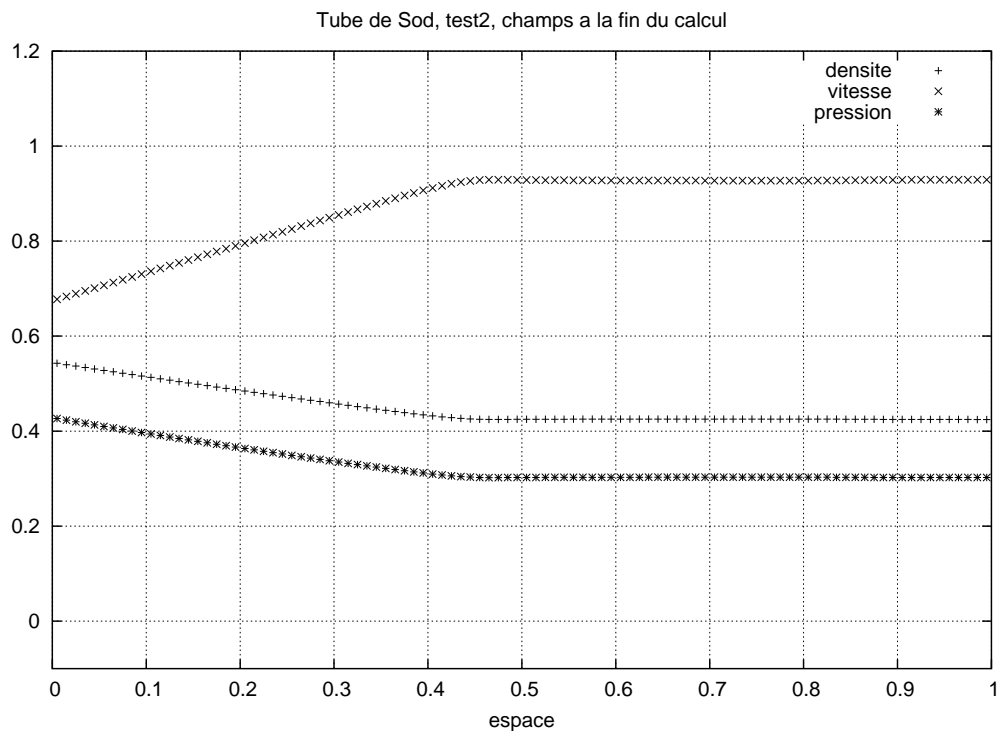


Figure 15 Tube de Sod, 100 mailles, schéma de Godunov

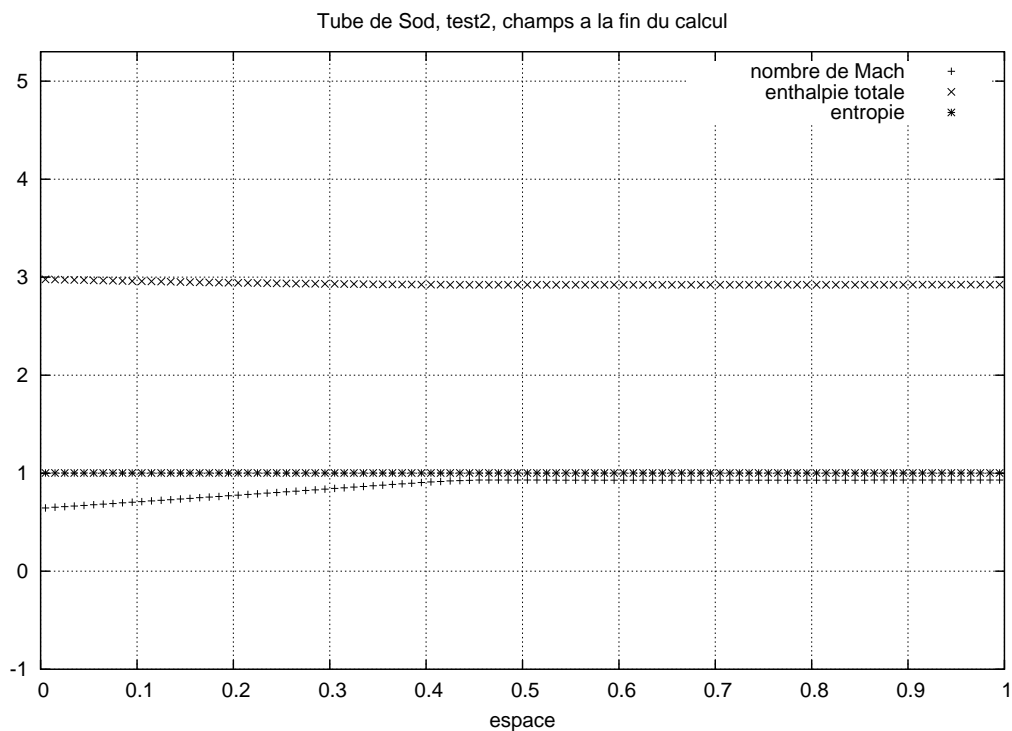


Figure 16 Tube de Sod, 100 mailles, schéma de Godunov

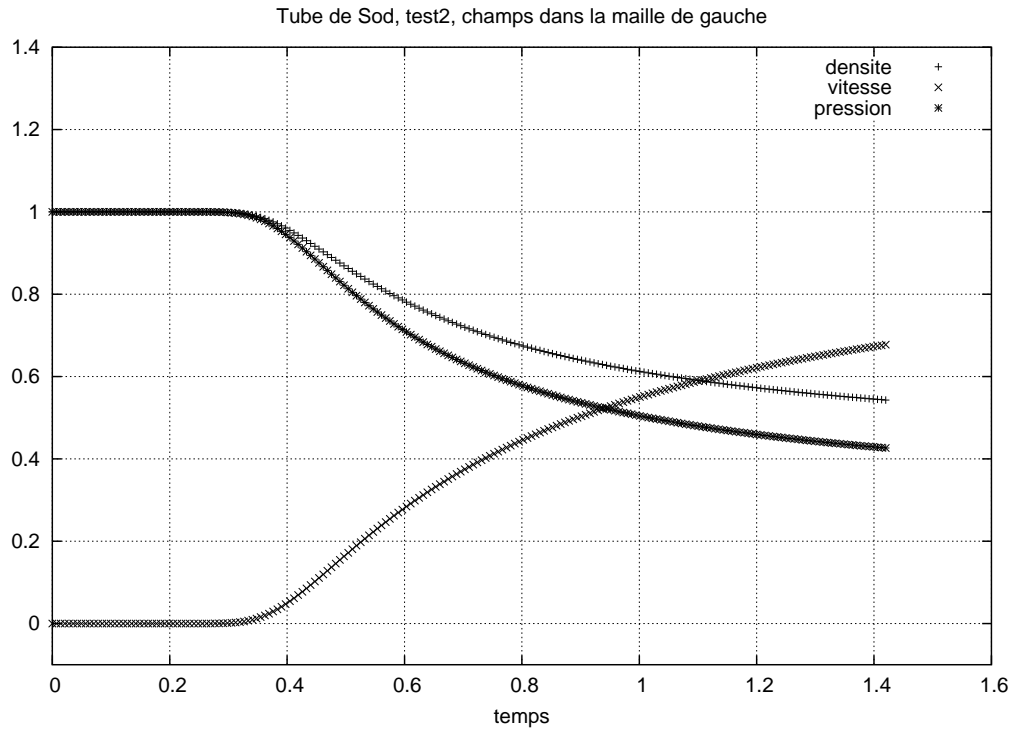


Figure 17 Tube de Sod, 100 mailles, schéma de Godunov

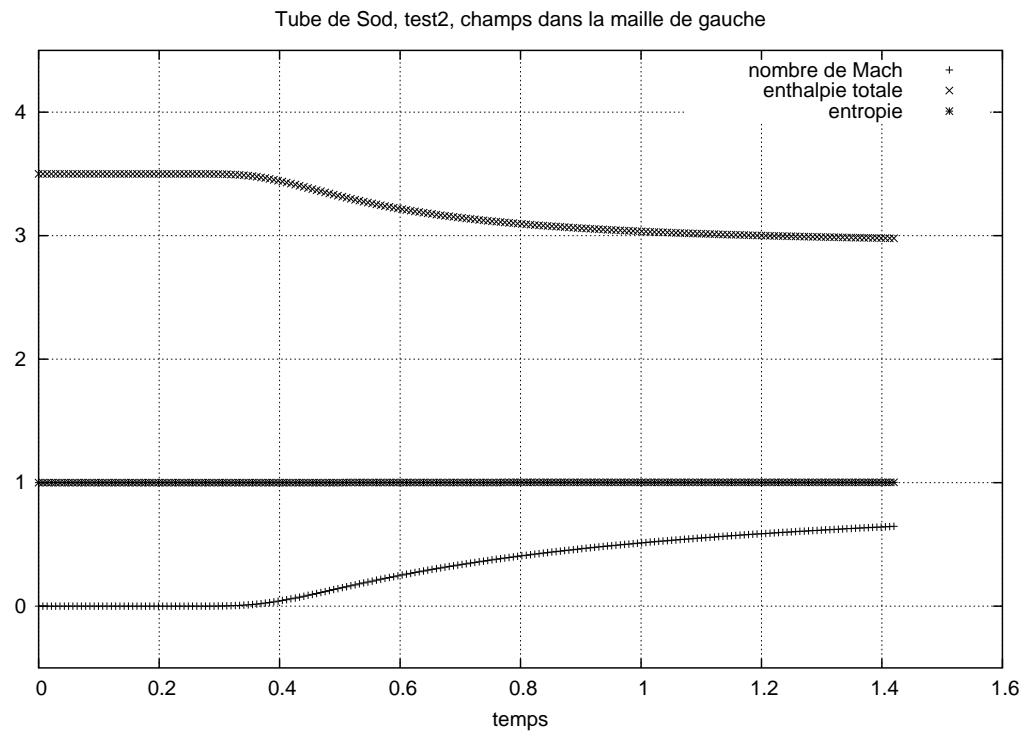


Figure 18 Tube de Sod, 100 mailles, schéma de Godunov

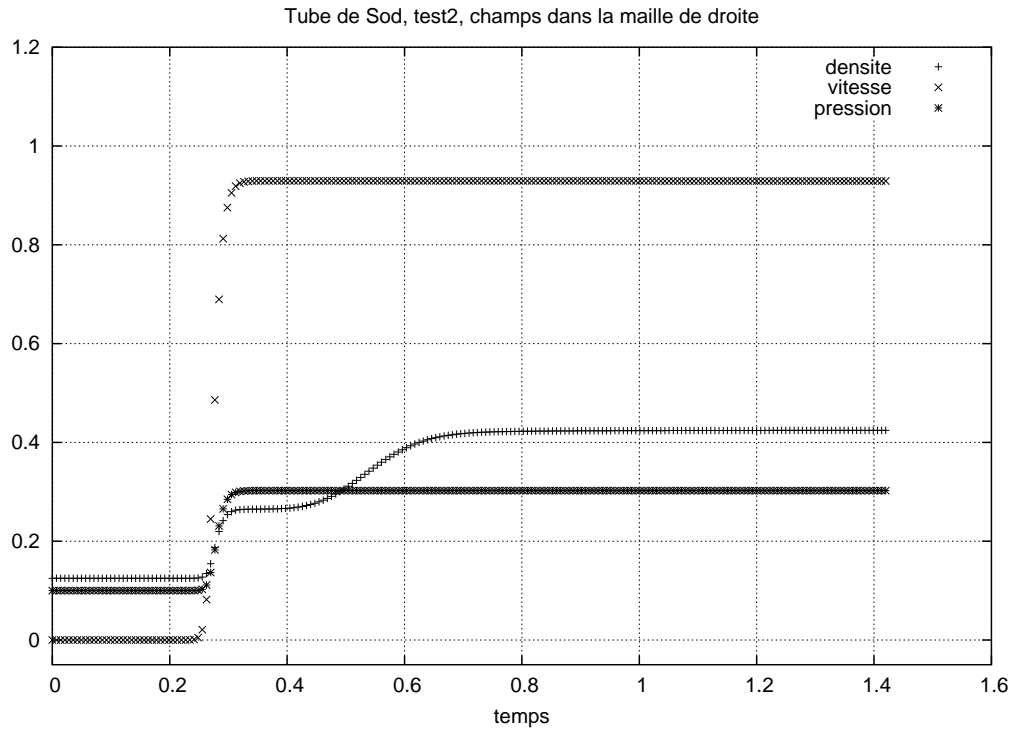


Figure 19 Tube de Sod, 100 mailles, schéma de Godunov

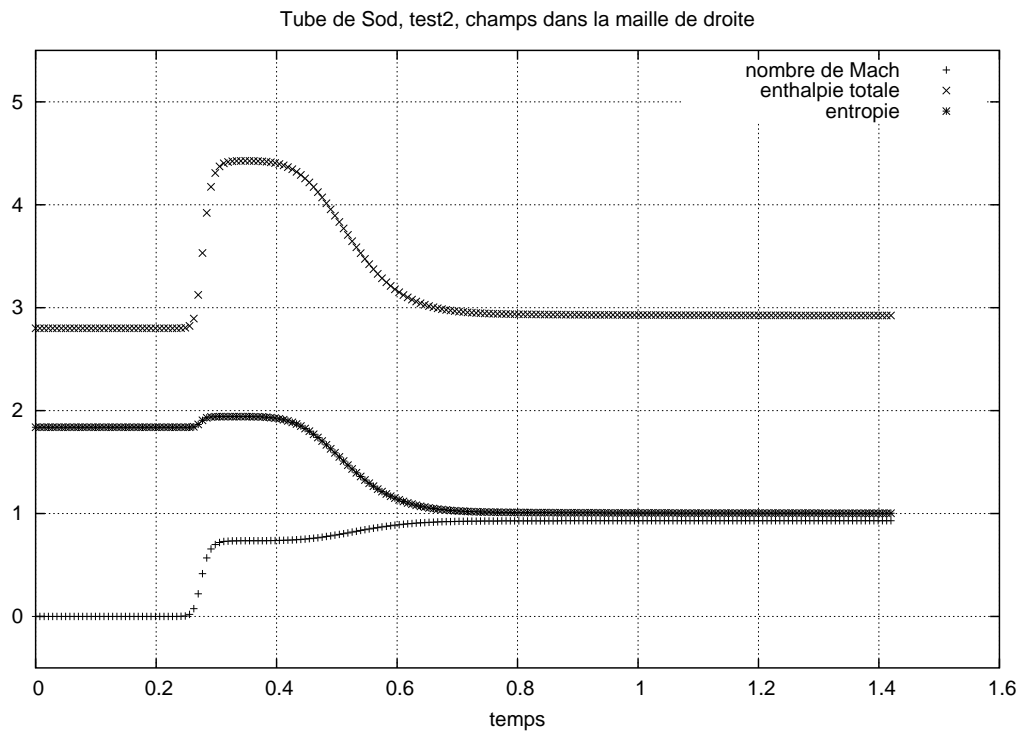


Figure 20 Tube de Sod, 100 mailles, schéma de Godunov

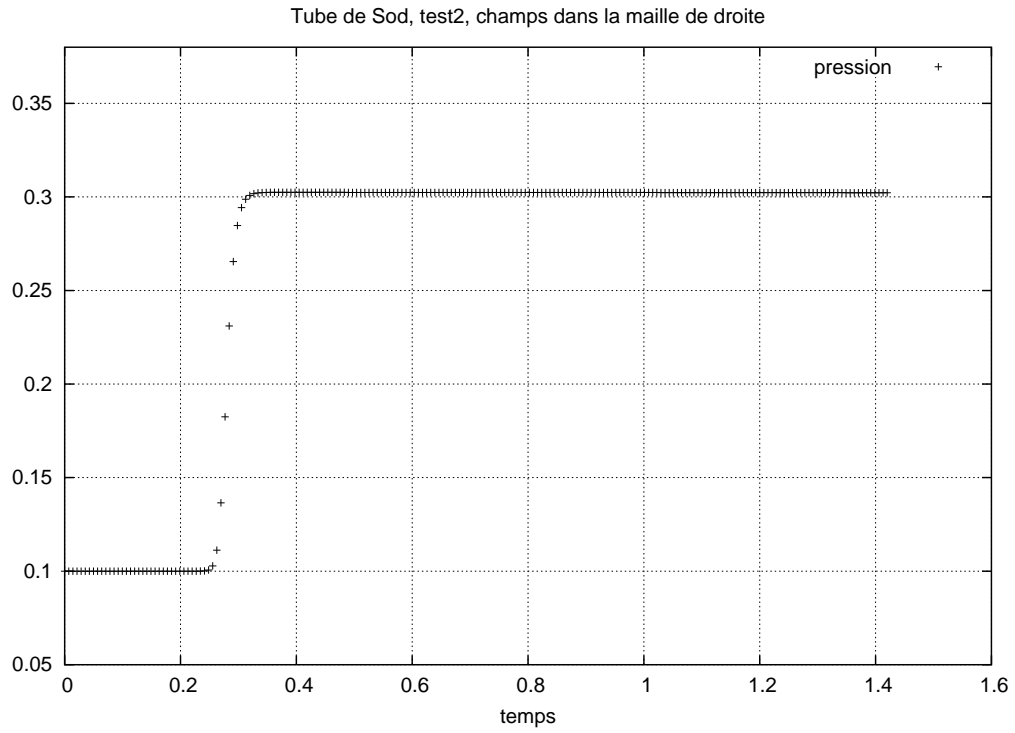


Figure 21 Tube de Sod, 100 mailles, schéma de Godunov

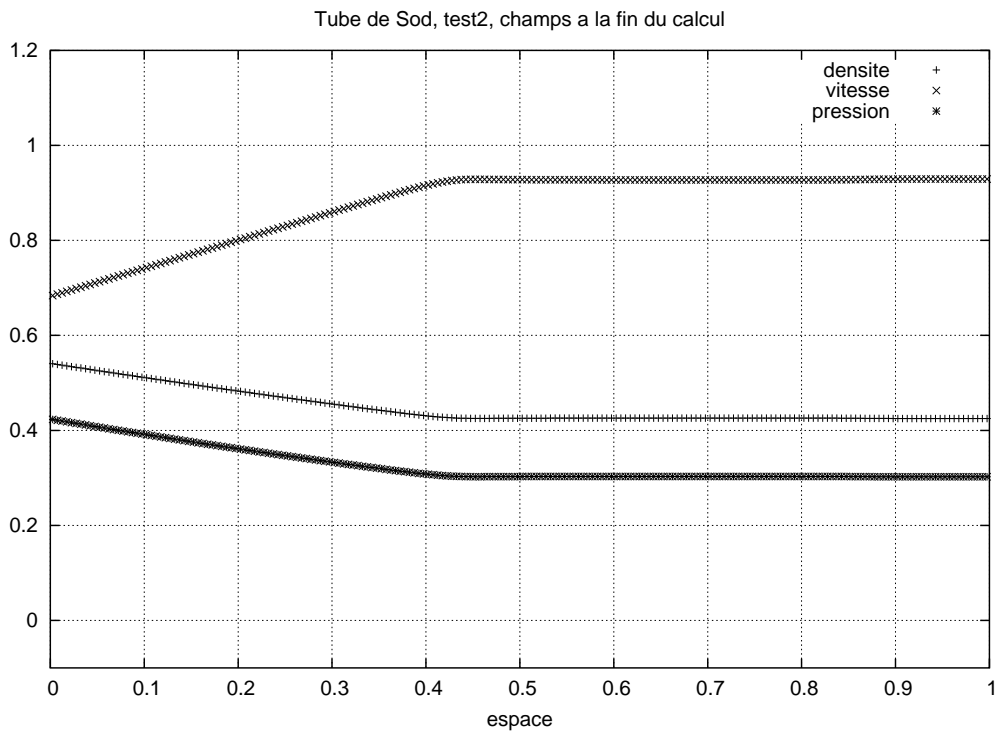


Figure 22 Tube de Sod, 200 mailles, schéma de Godunov

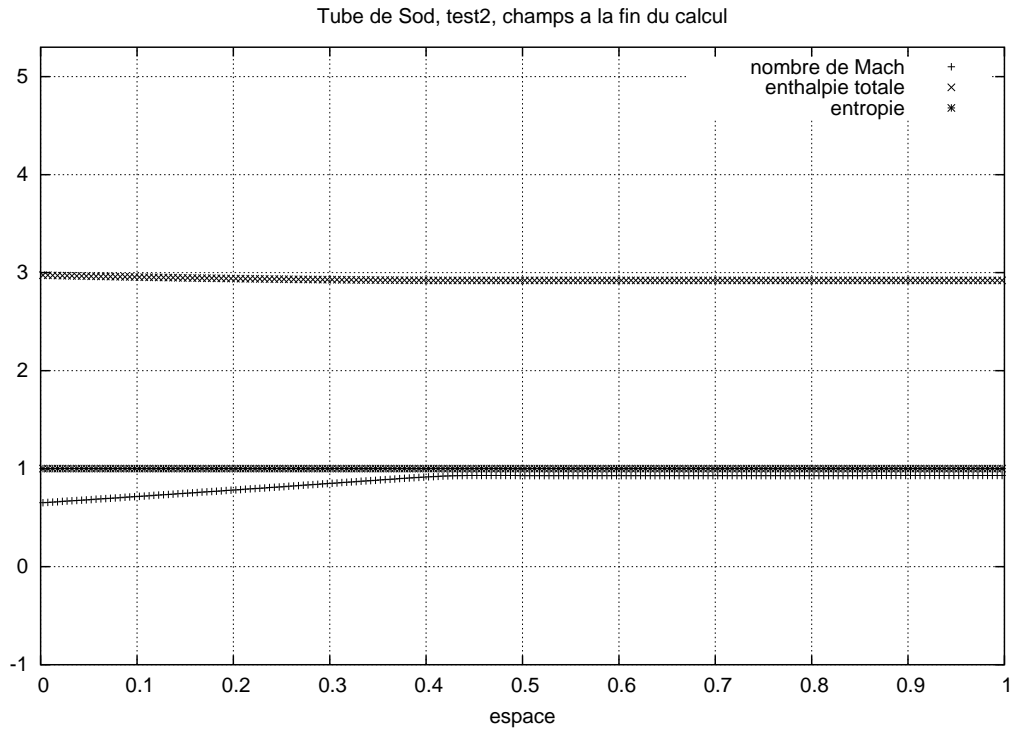


Figure 23 Tube de Sod, 200 mailles, schéma de Godunov

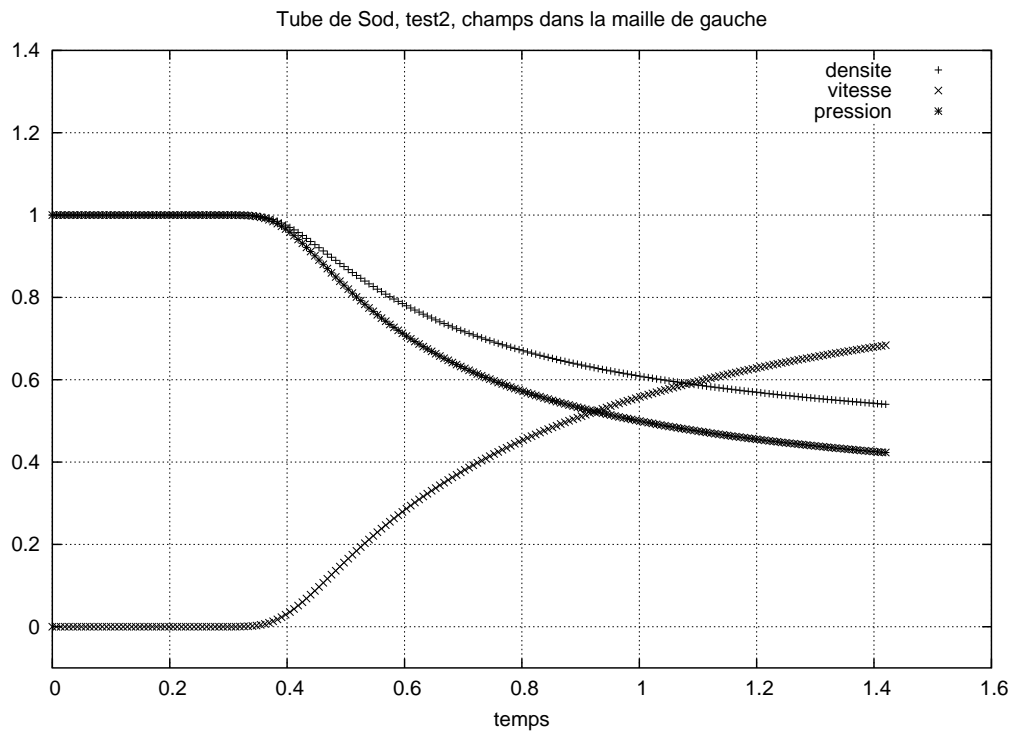


Figure 24 Tube de Sod, 200 mailles, schéma de Godunov

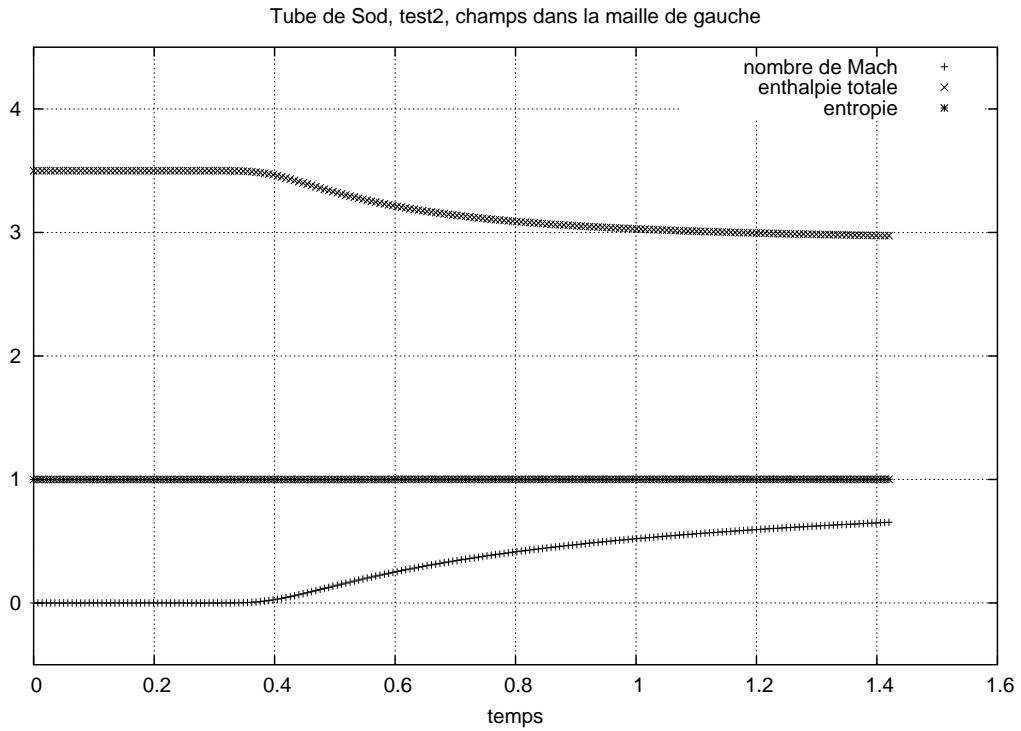


Figure 25 Tube de Sod, 200 mailles, schéma de Godunov

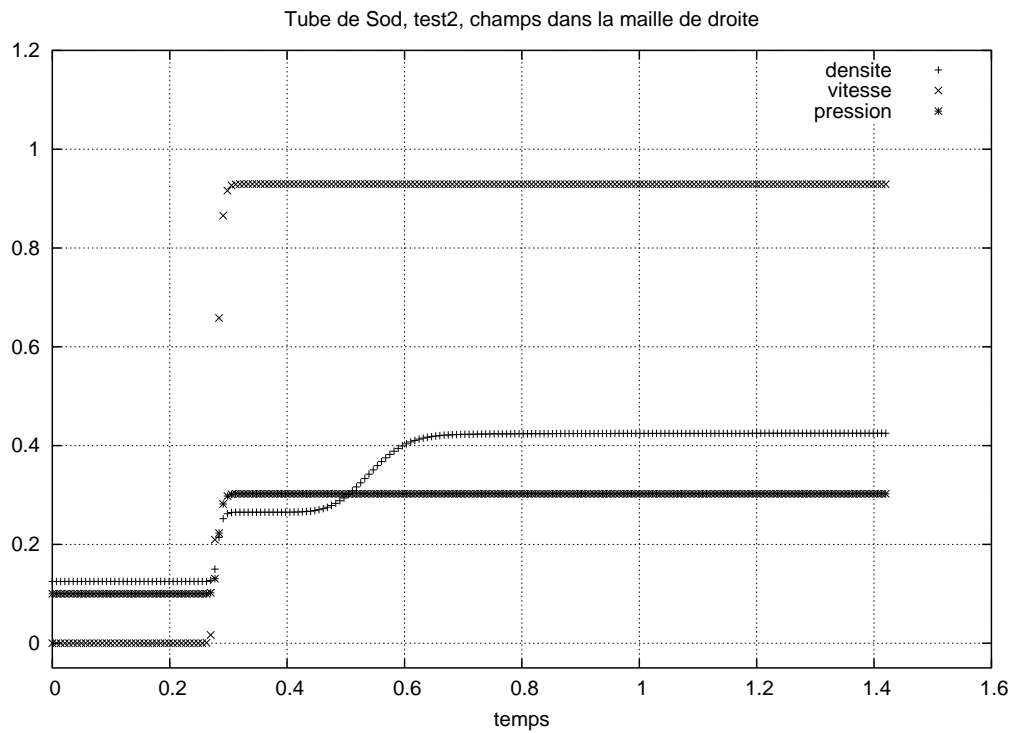


Figure 26 Tube de Sod, 200 mailles, schéma de Godunov

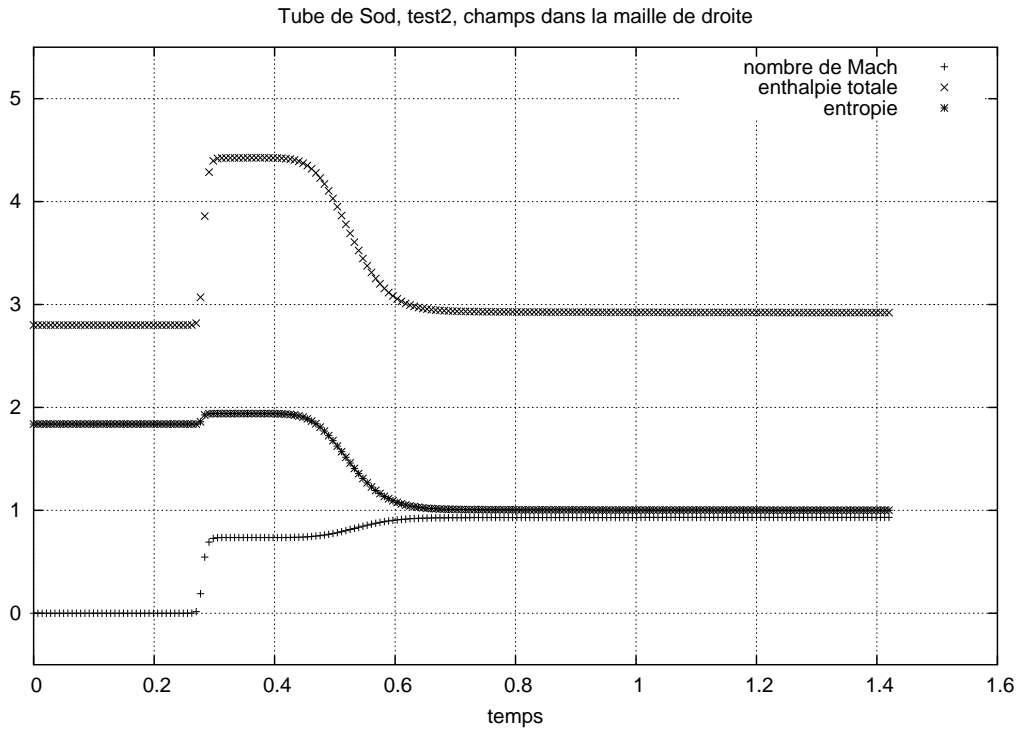


Figure 27 Tube de Sod, 200 mailles, schéma de Godunov

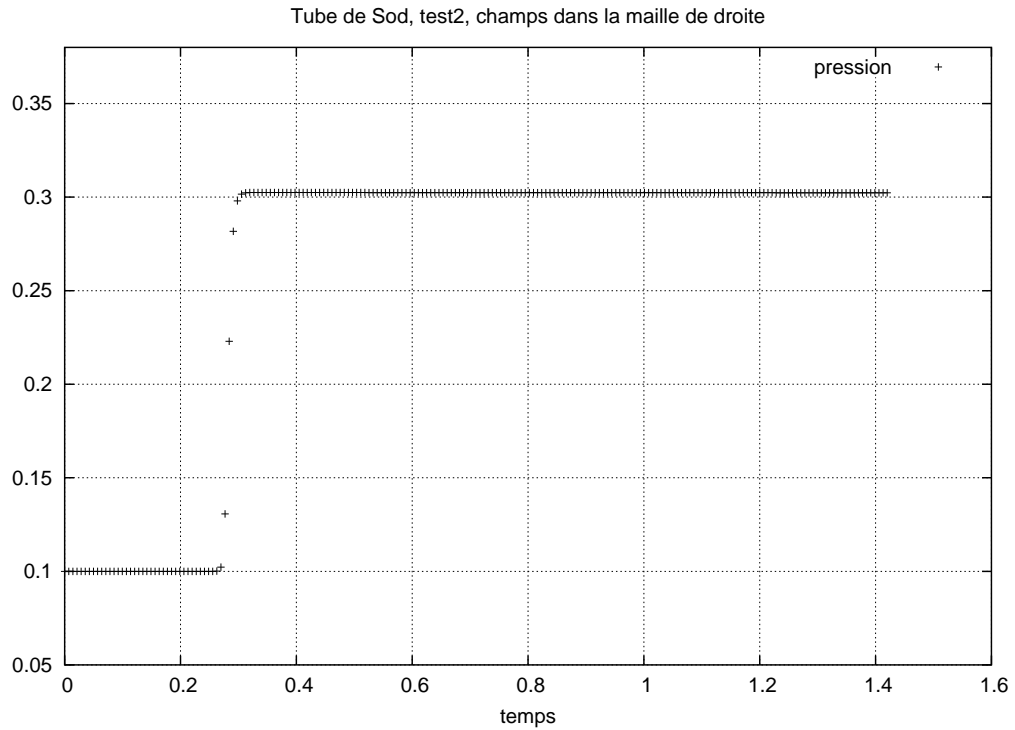


Figure 28 Tube de Sod, 200 mailles, schéma de Godunov

test3 : on va jusqu'a $t=8,52$; utilise le schéma de Godunov

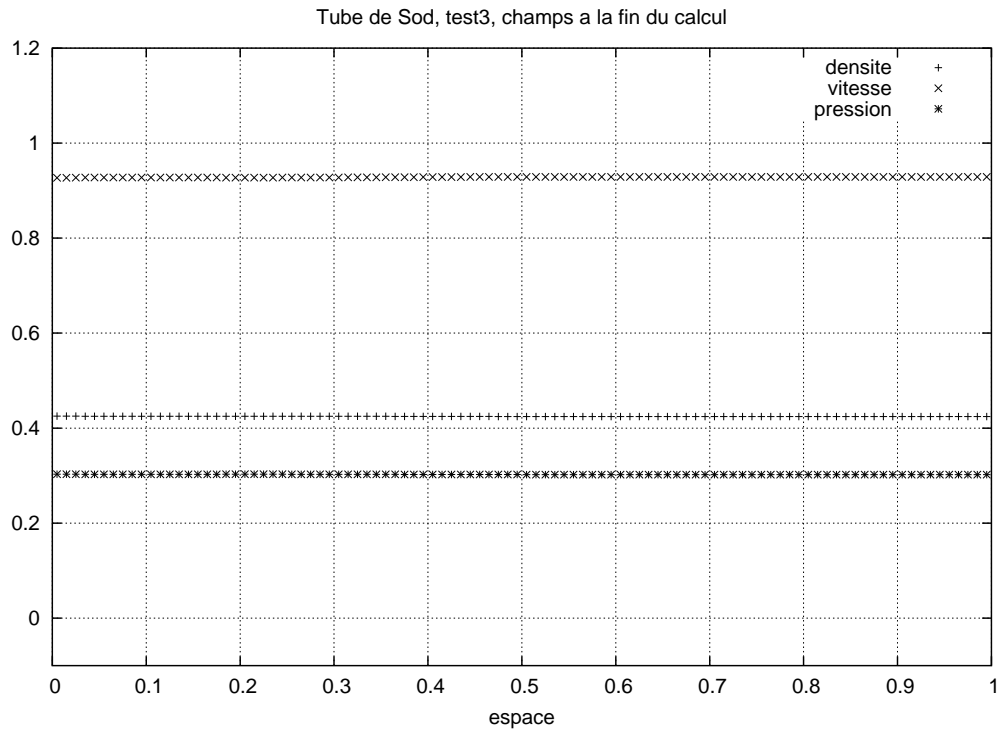


Figure 29 Tube de Sod, 100 mailles, schéma de Godunov

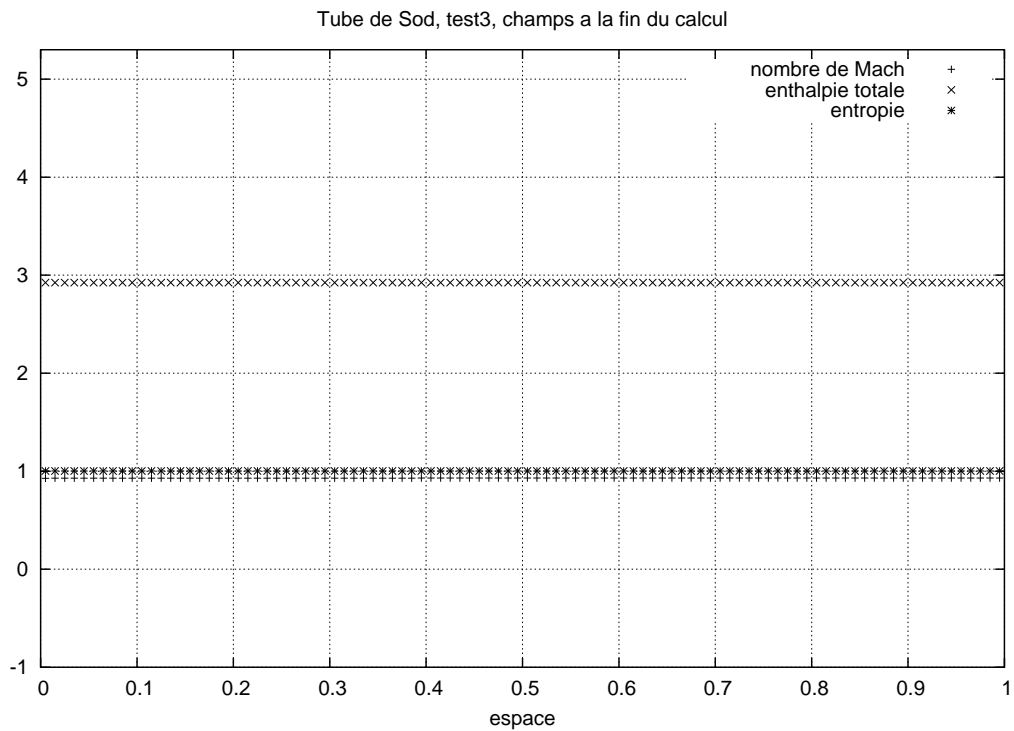


Figure 30 Tube de Sod, 100 mailles, schéma de Godunov

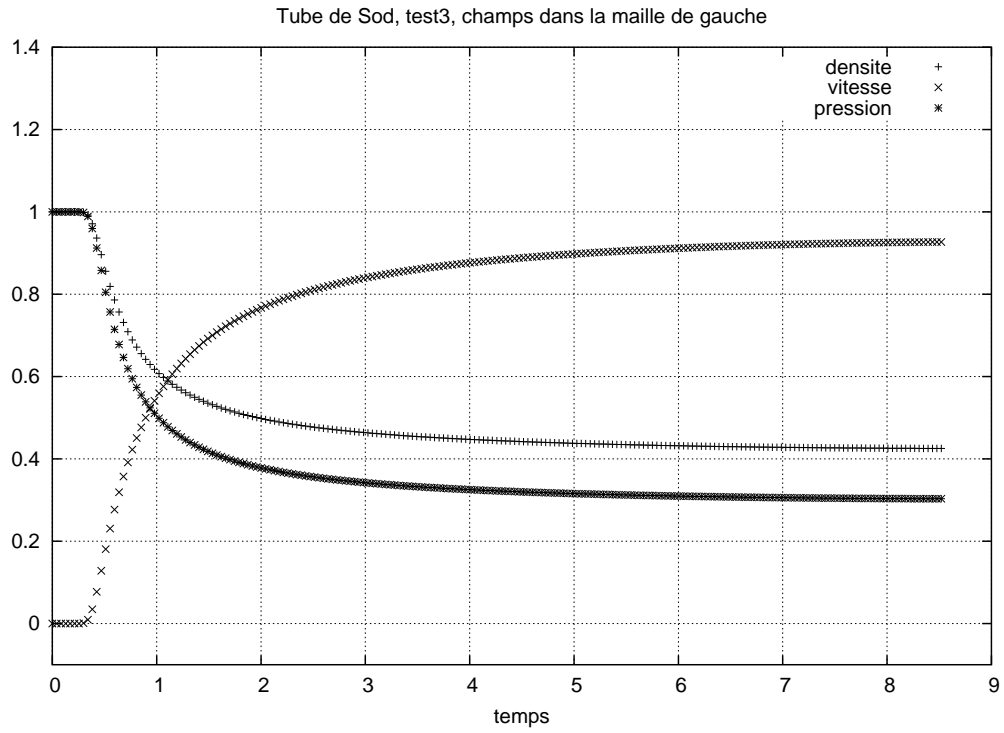


Figure 31 Tube de Sod, 100 mailles, schéma de Godunov

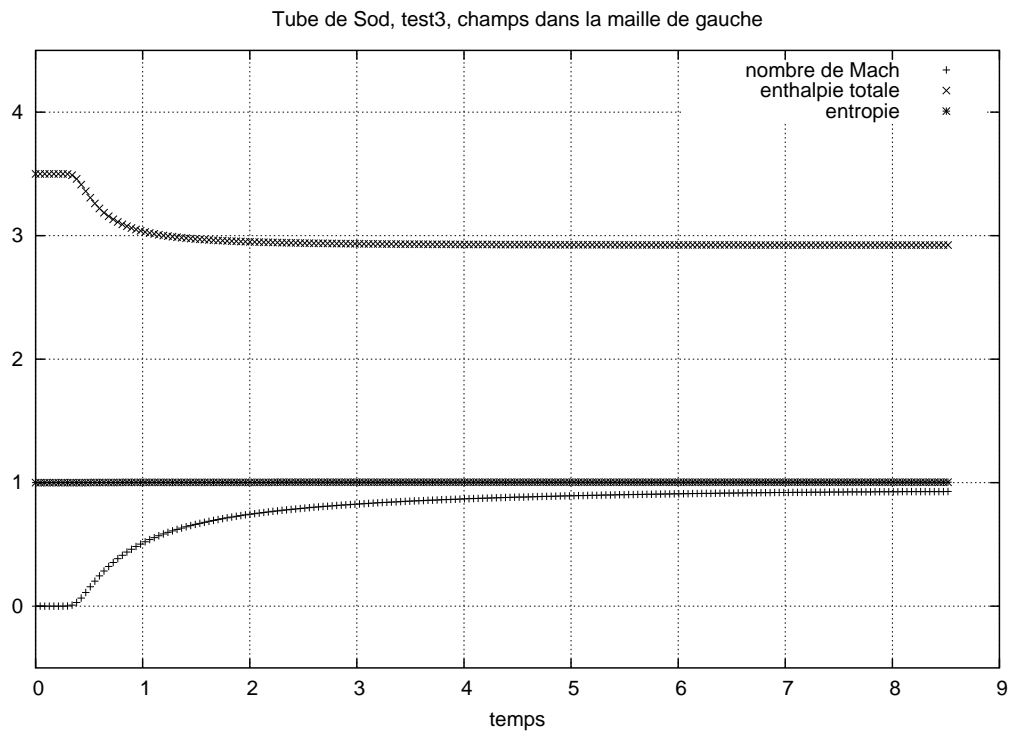


Figure 32 Tube de Sod, 100 mailles, schéma de Godunov

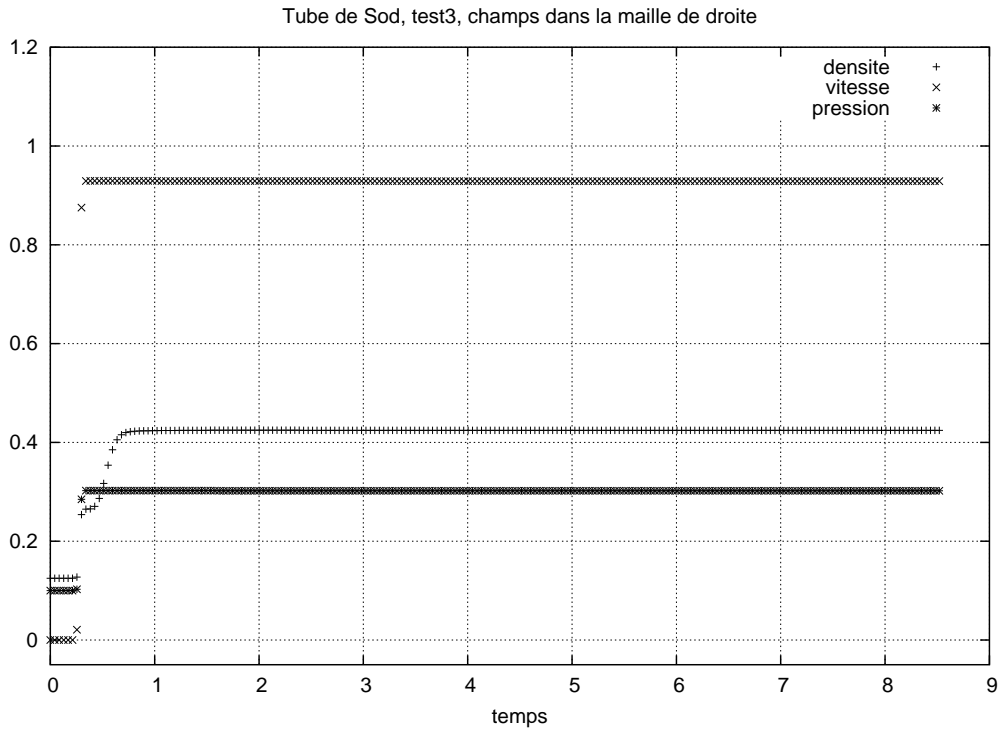


Figure 33 Tube de Sod, 100 mailles, schéma de Godunov

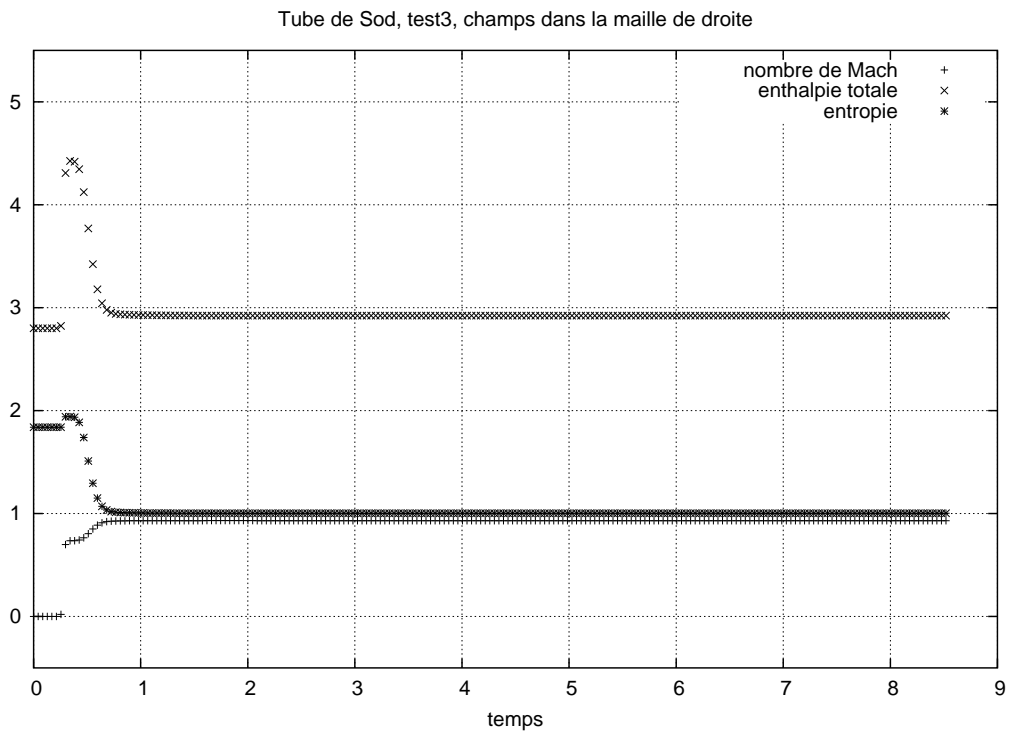


Figure 34 Tube de Sod, 100 mailles, schéma de Godunov

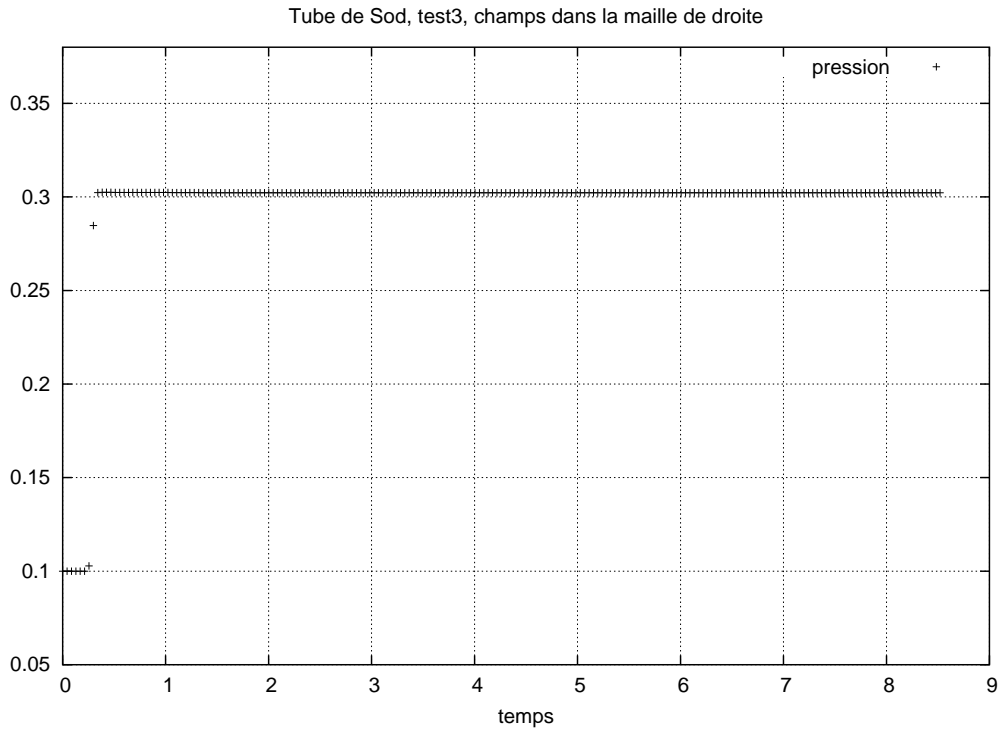


Figure 35 Tube de Sod, 100 mailles, schéma de Godunov

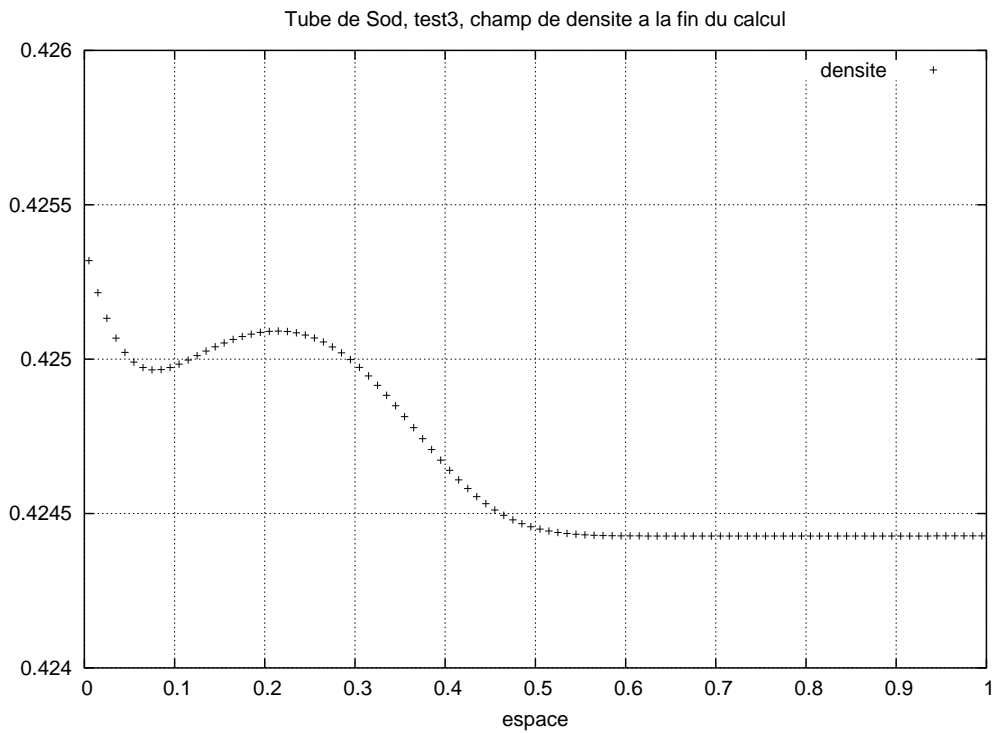


Figure 36 Tube de Sod, 100 mailles, schéma de Godunov

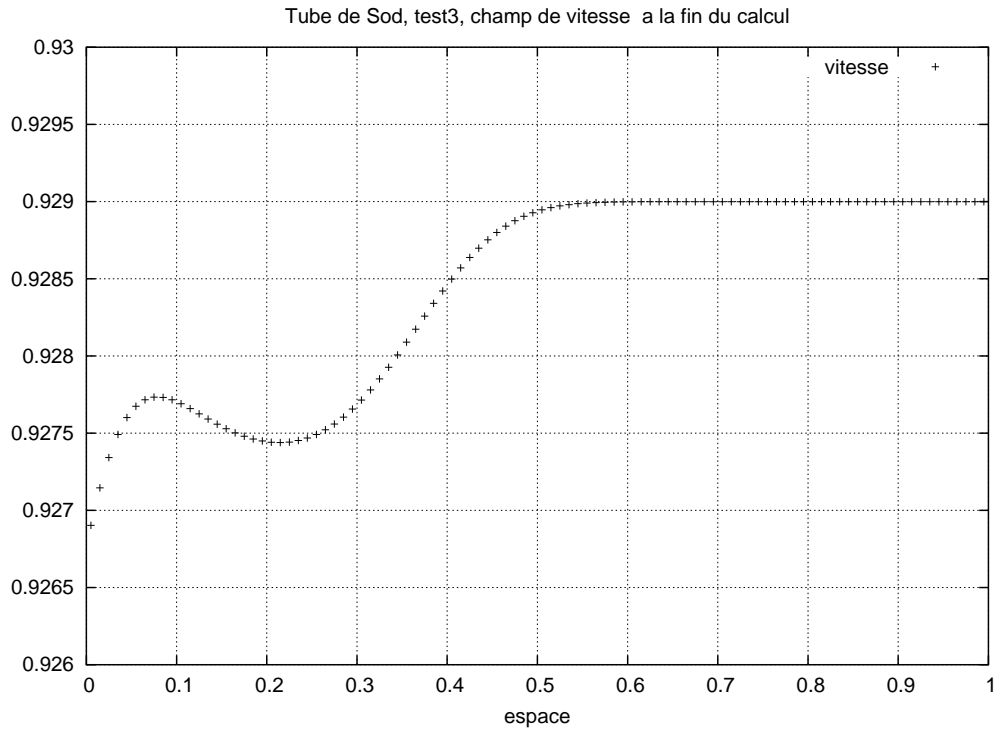


Figure 37 Tube de Sod, 100 mailles, schéma de Godunov

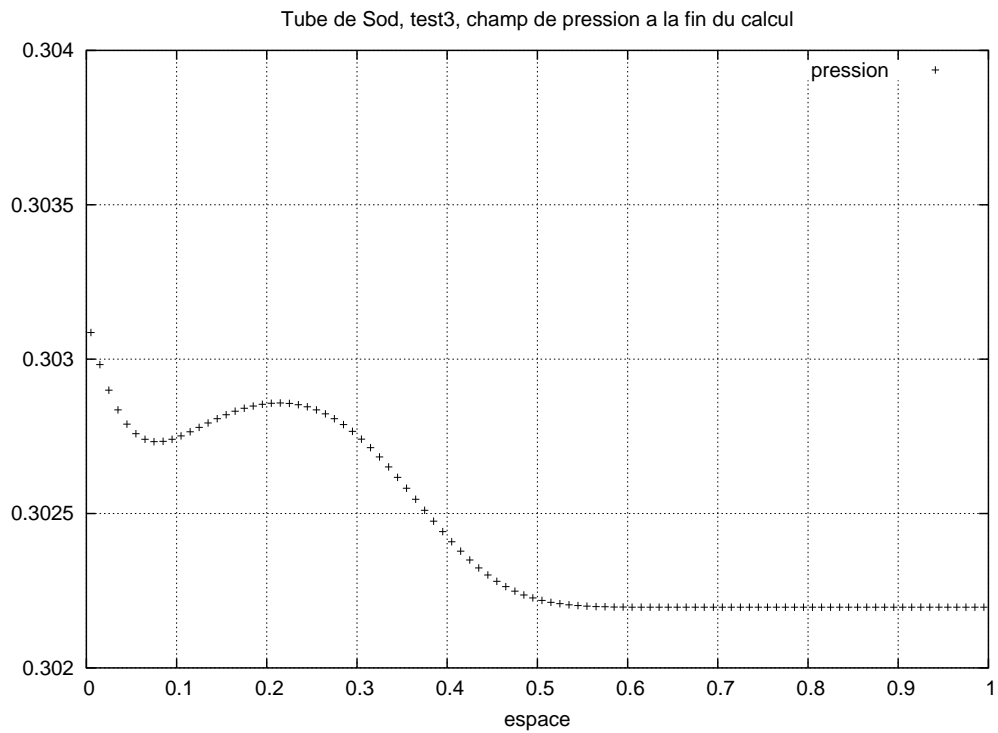


Figure 38 Tube de Sod, 100 mailles, schéma de Godunov

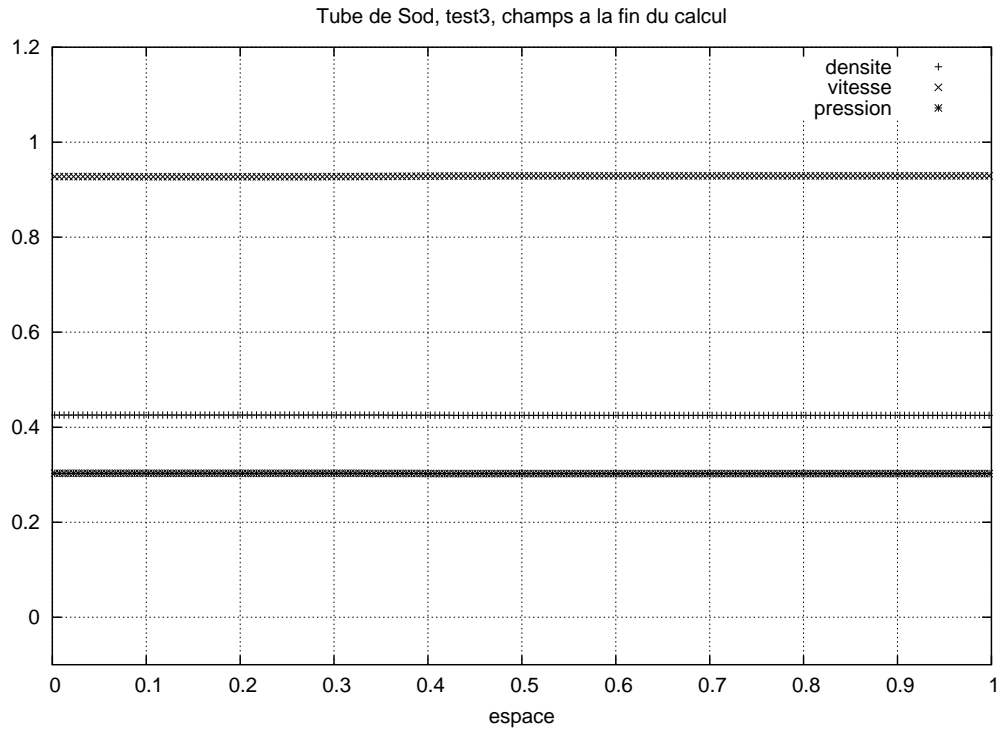


Figure 39 Tube de Sod, 200 mailles, schéma de Godunov

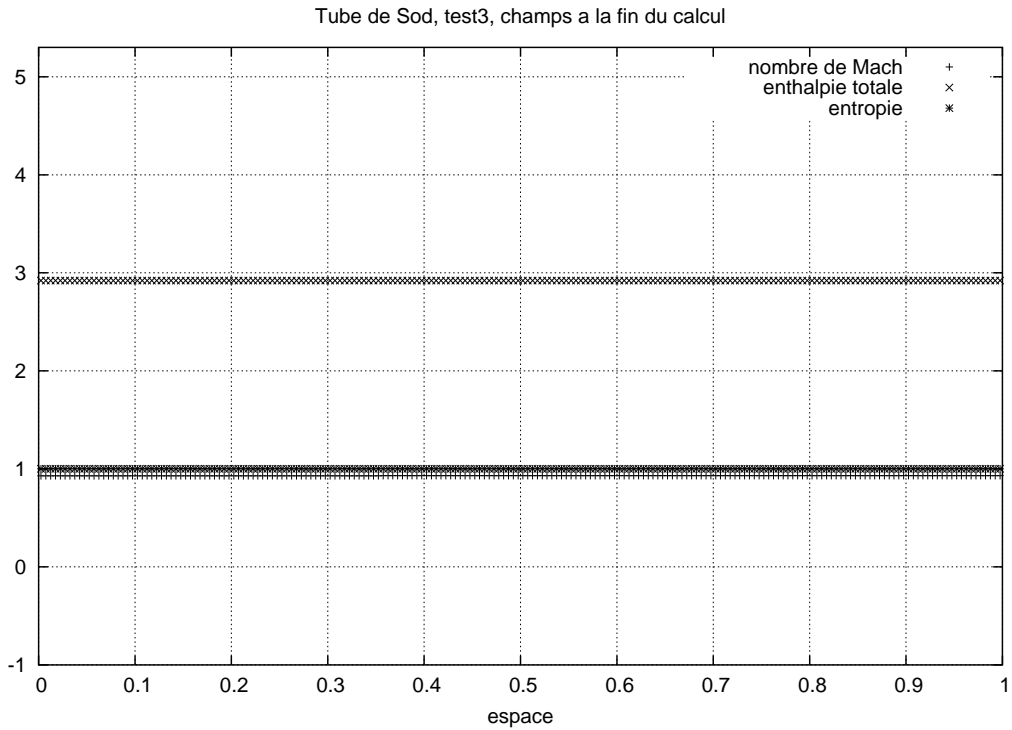


Figure 40 Tube de Sod, 200 mailles, schéma de Godunov

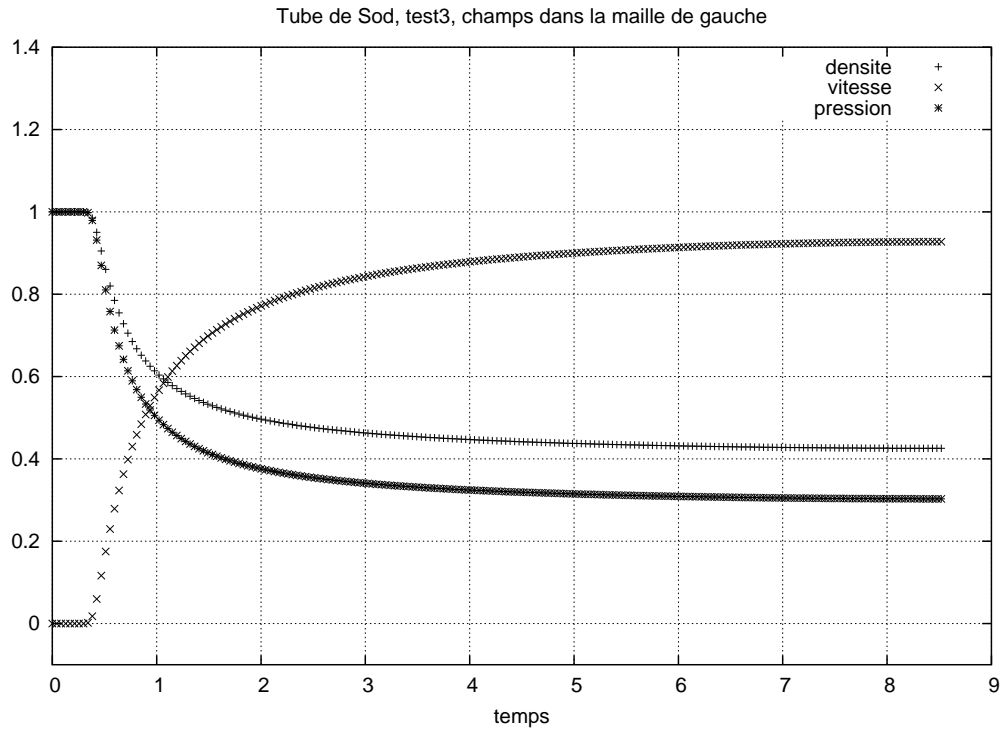


Figure 41 Tube de Sod, 200 mailles, schéma de Godunov

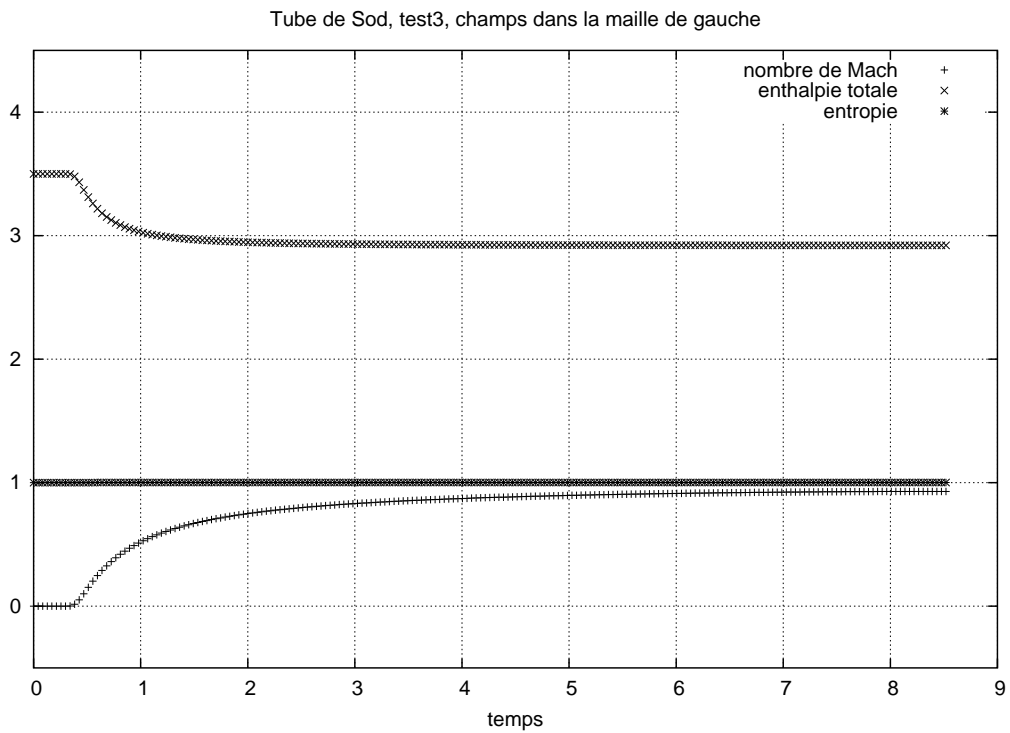


Figure 42 Tube de Sod, 200 mailles, schéma de Godunov

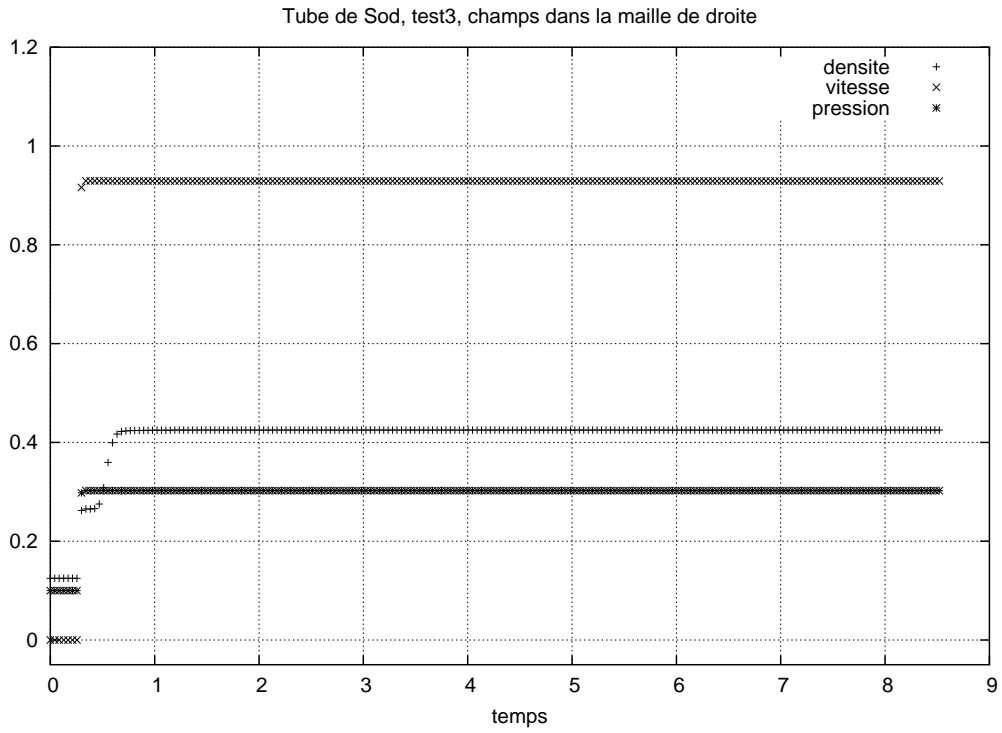


Figure 43 Tube de Sod, 200 mailles, schéma de Godunov

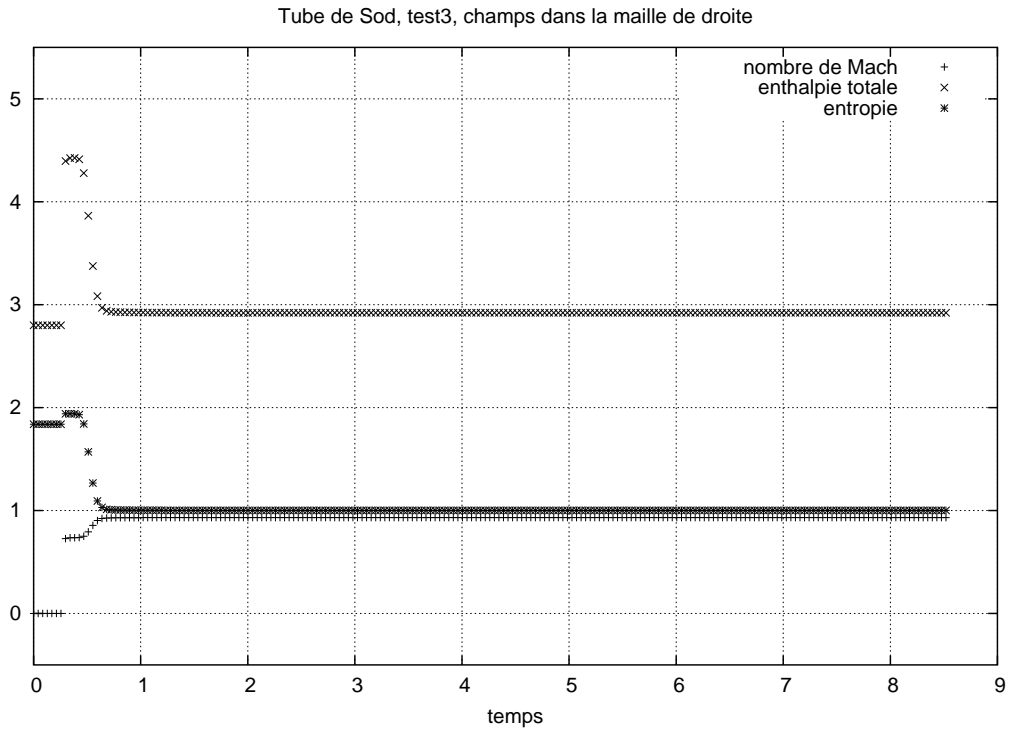


Figure 44 Tube de Sod, 200 mailles, schéma de Godunov

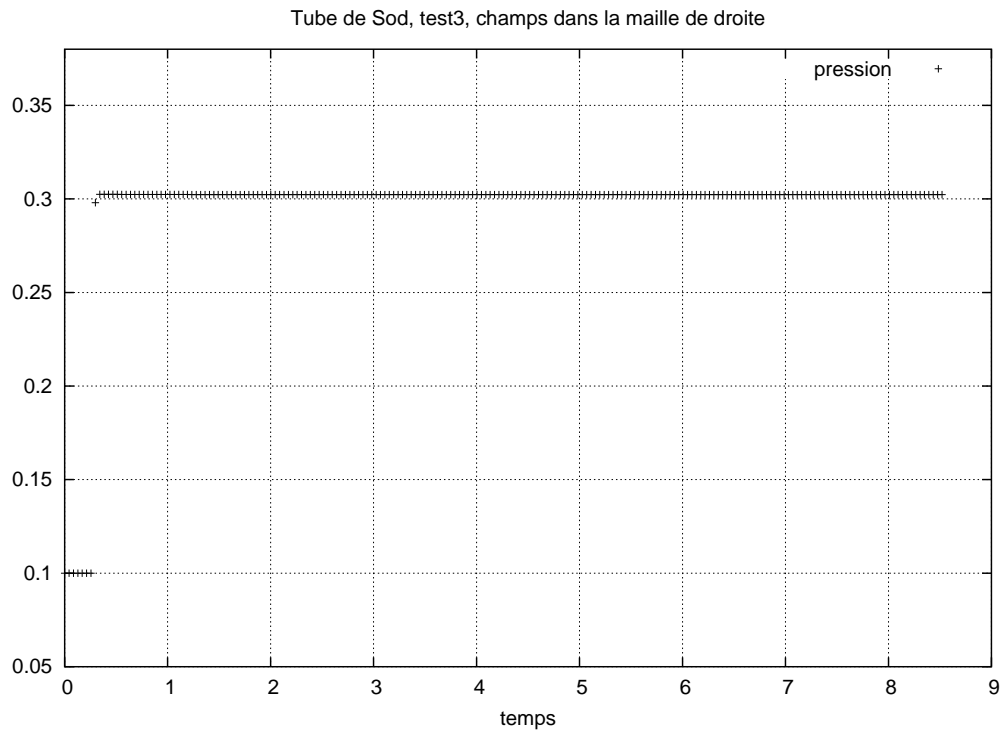


Figure 45 Tube de Sod, 200 mailles, schéma de Godunov

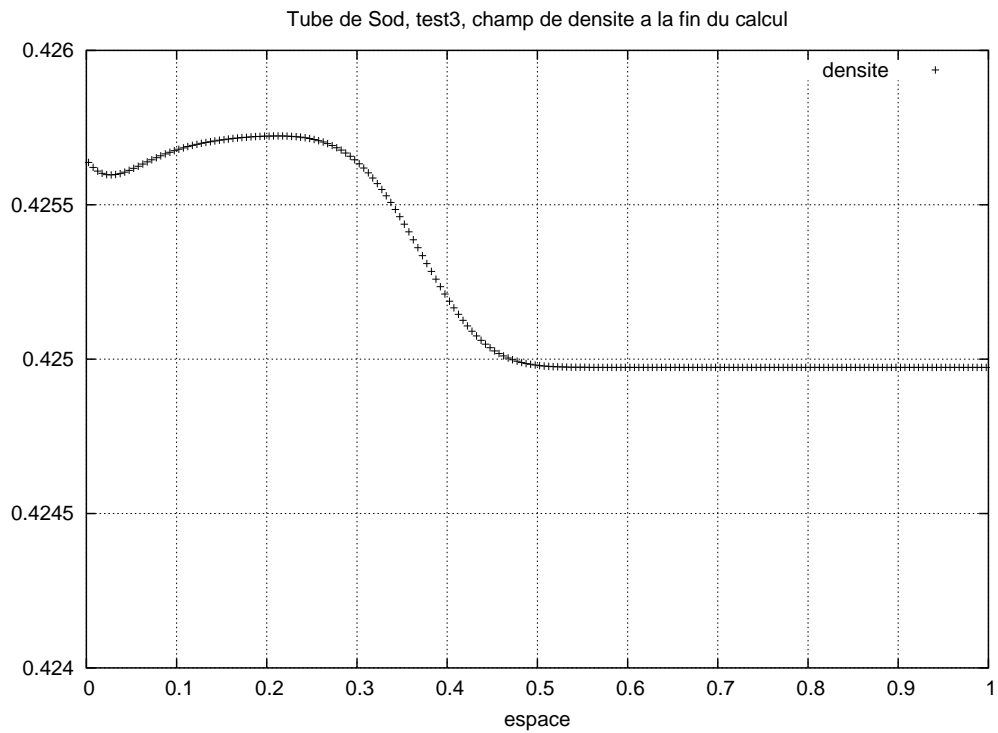


Figure 46 Tube de Sod, 200 mailles, schéma de Godunov

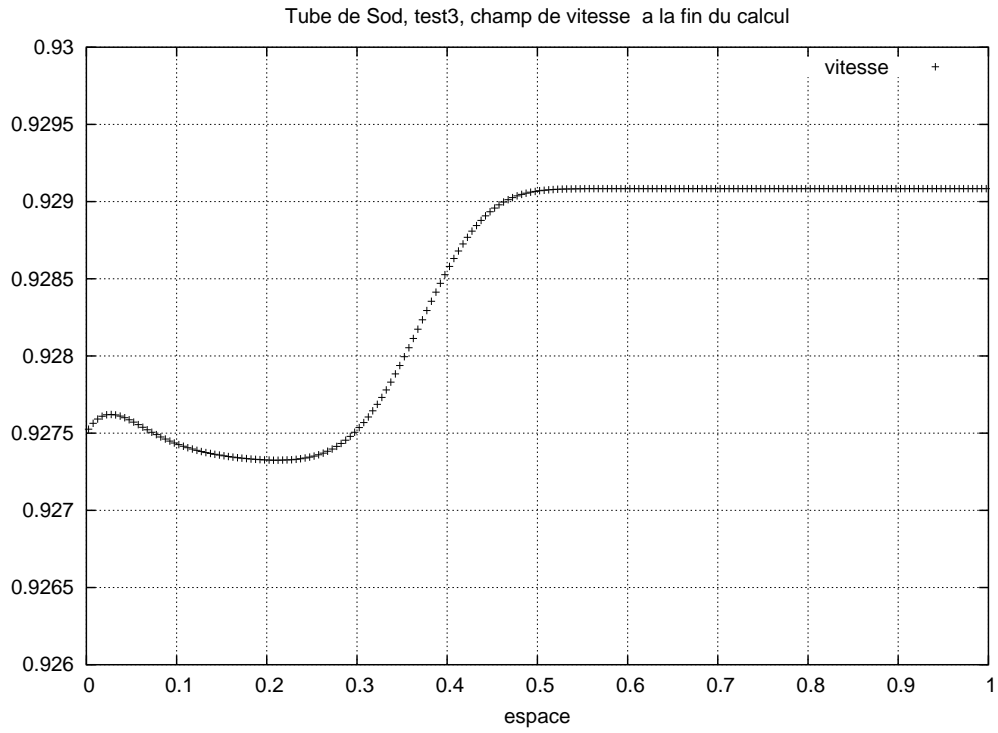


Figure 47 Tube de Sod, 200 mailles, schéma de Godunov

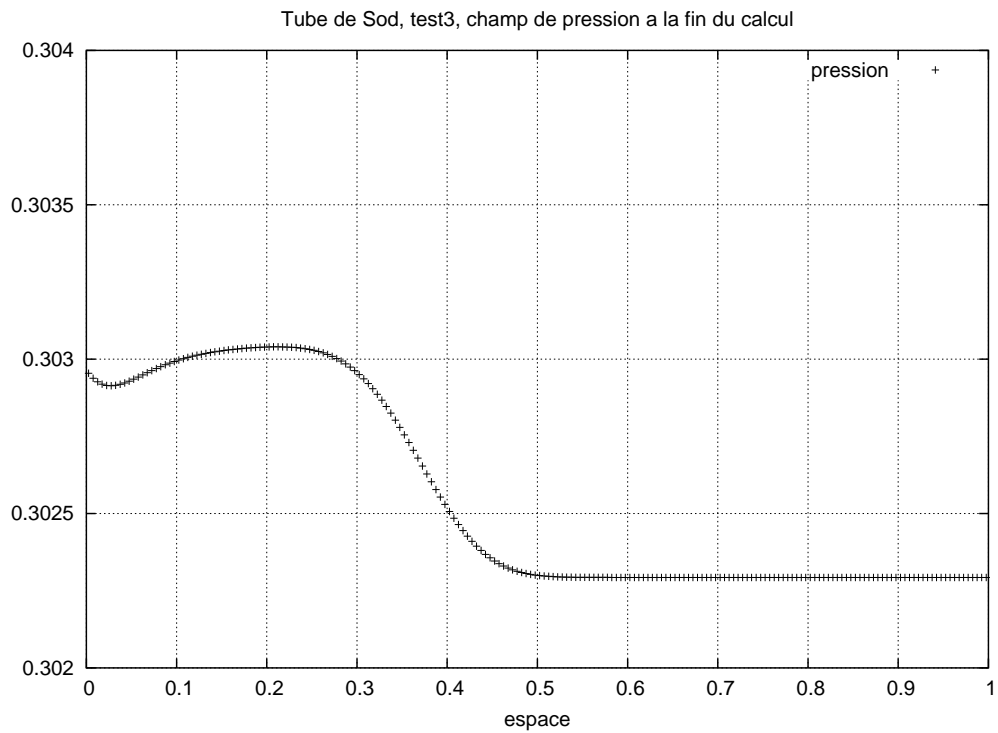


Figure 48 Tube de Sod, 200 mailles, schéma de Godunov

test4 : on va jusqu'a $t=28,4$; on utilise le schéma de Godunov

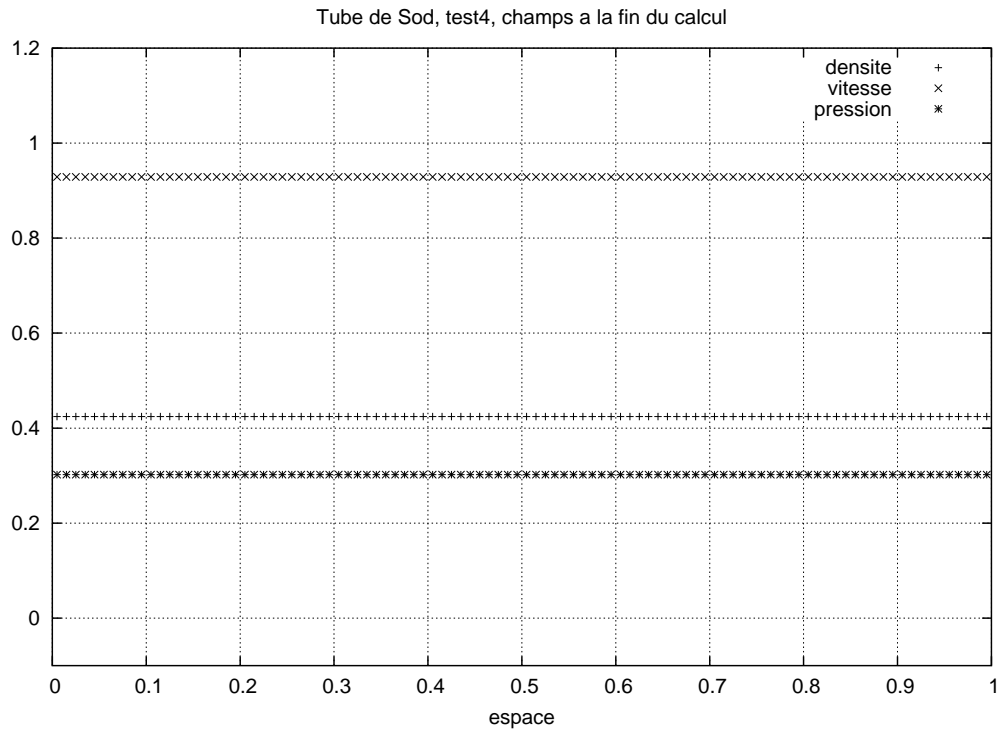


Figure 49 Tube de Sod, 100 mailles, schéma de Godunov

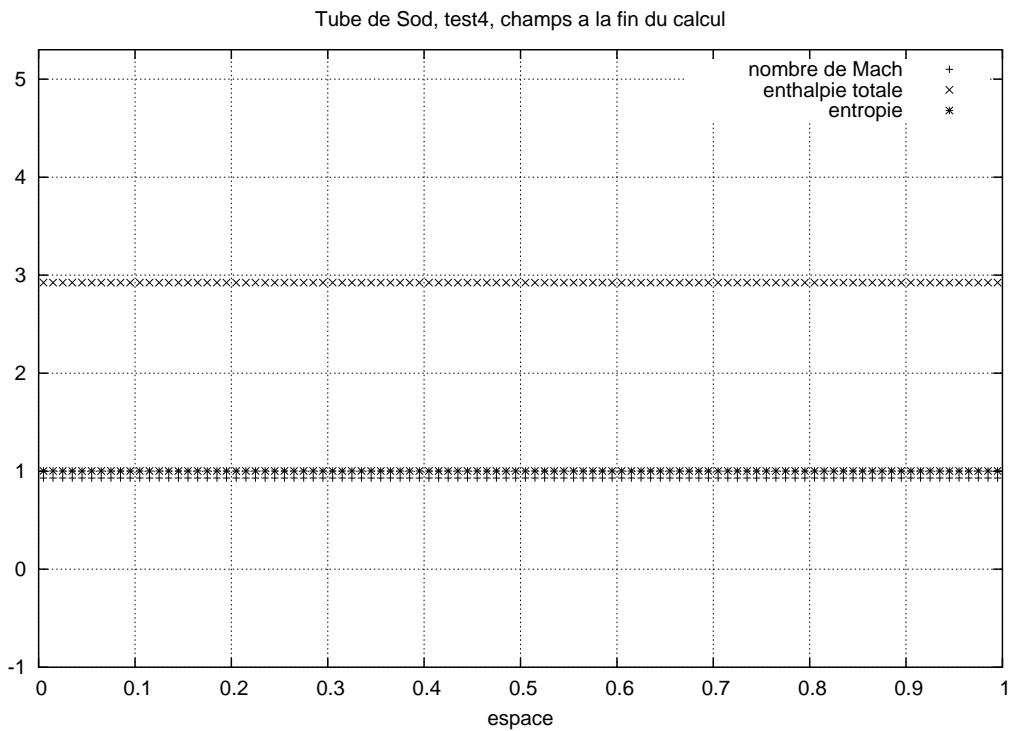


Figure 50 Tube de Sod, 100 mailles, schéma de Godunov

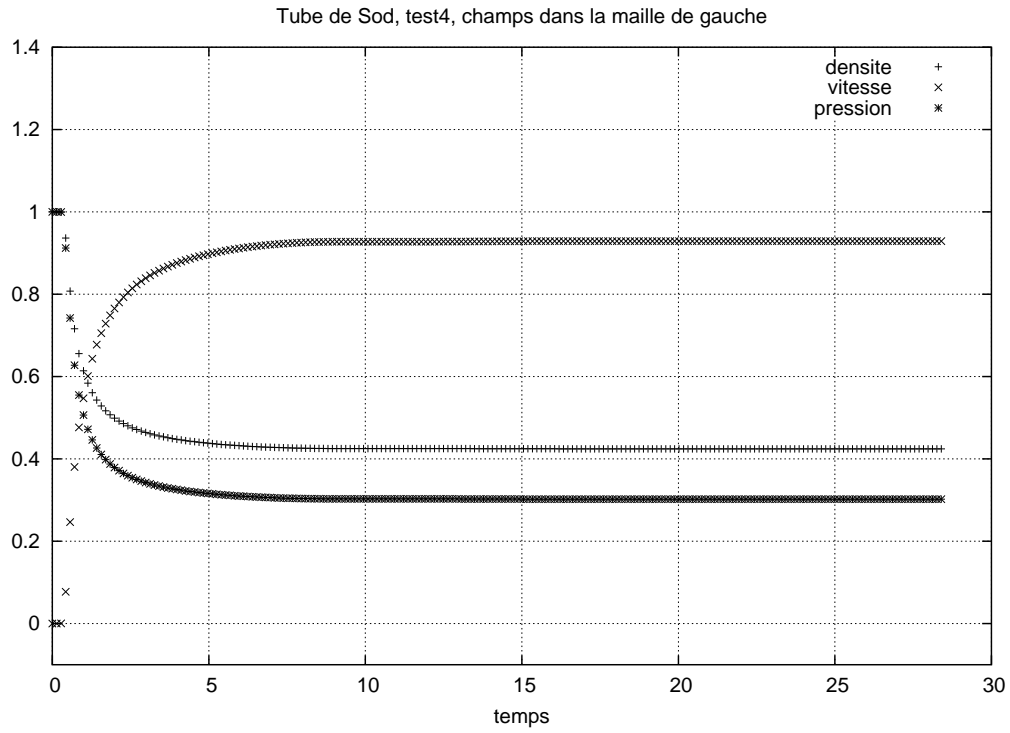


Figure 51 Tube de Sod, 100 mailles, schéma de Godunov

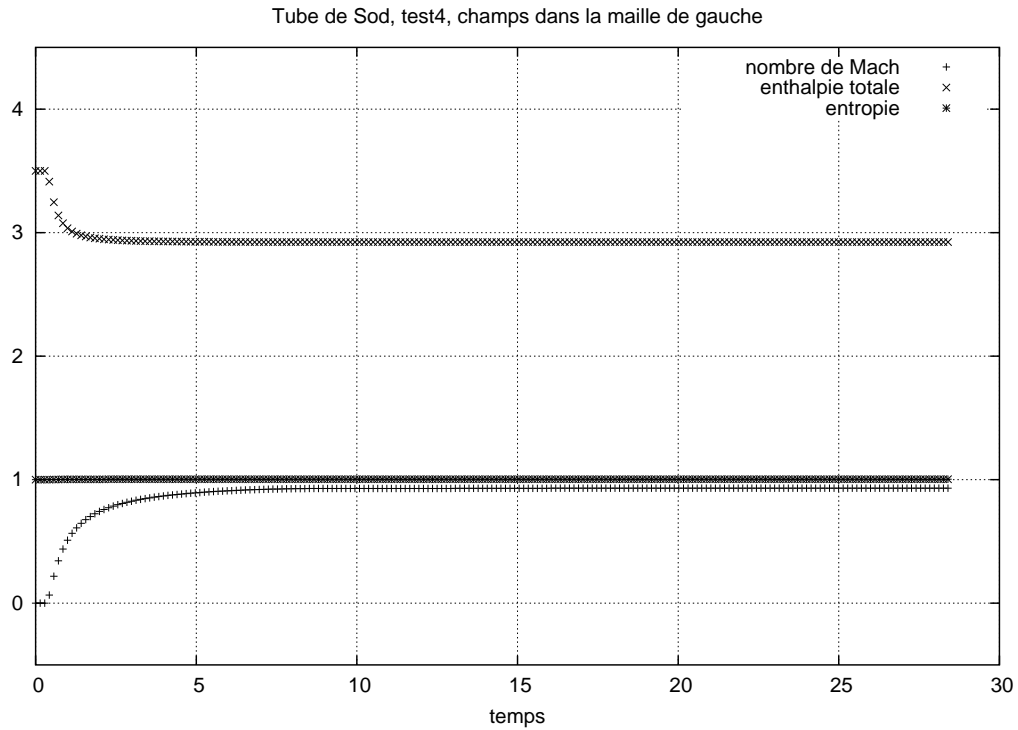


Figure 52 Tube de Sod, 100 mailles, schéma de Godunov

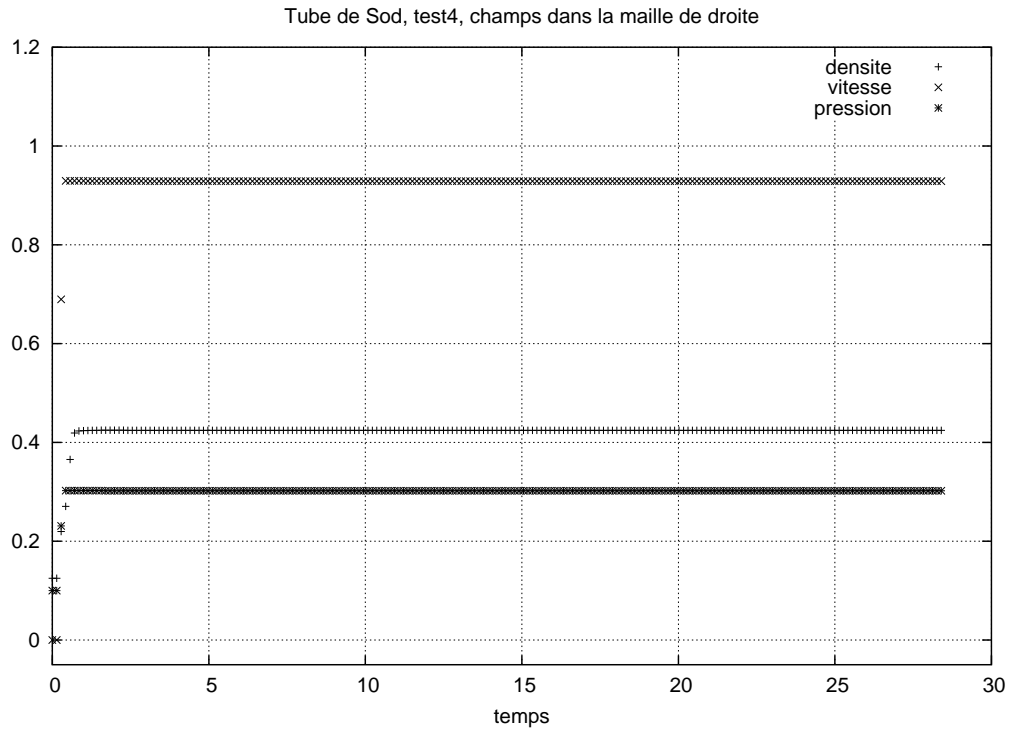


Figure 53 Tube de Sod, 100 mailles, schéma de Godunov

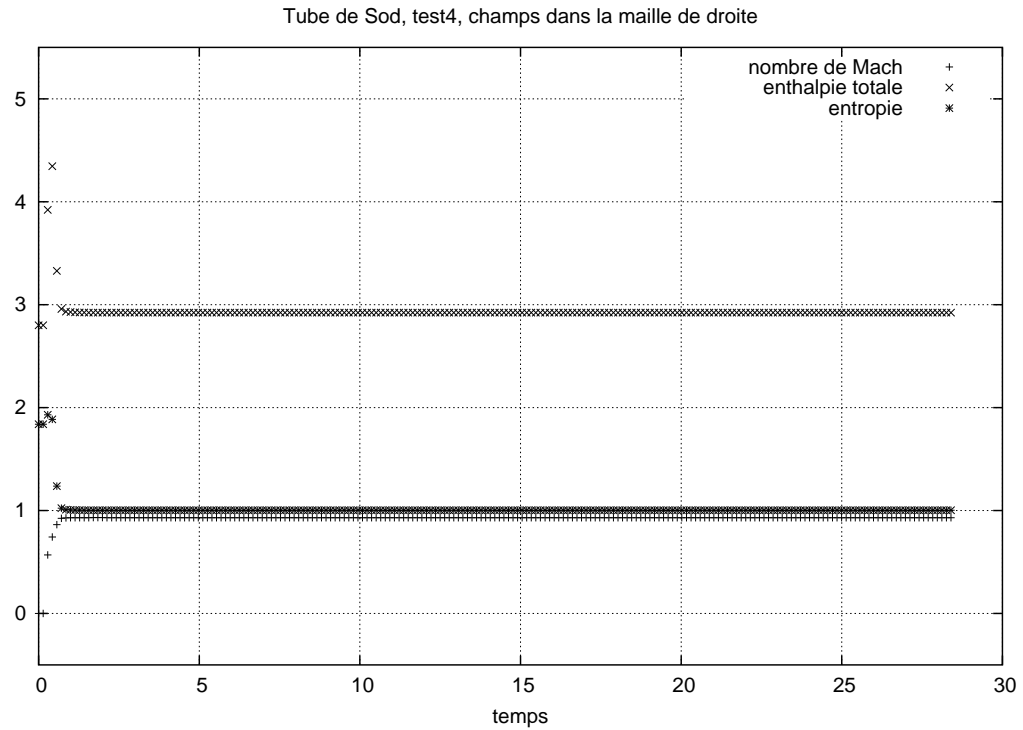


Figure 54 Tube de Sod, 100 mailles, schéma de Godunov

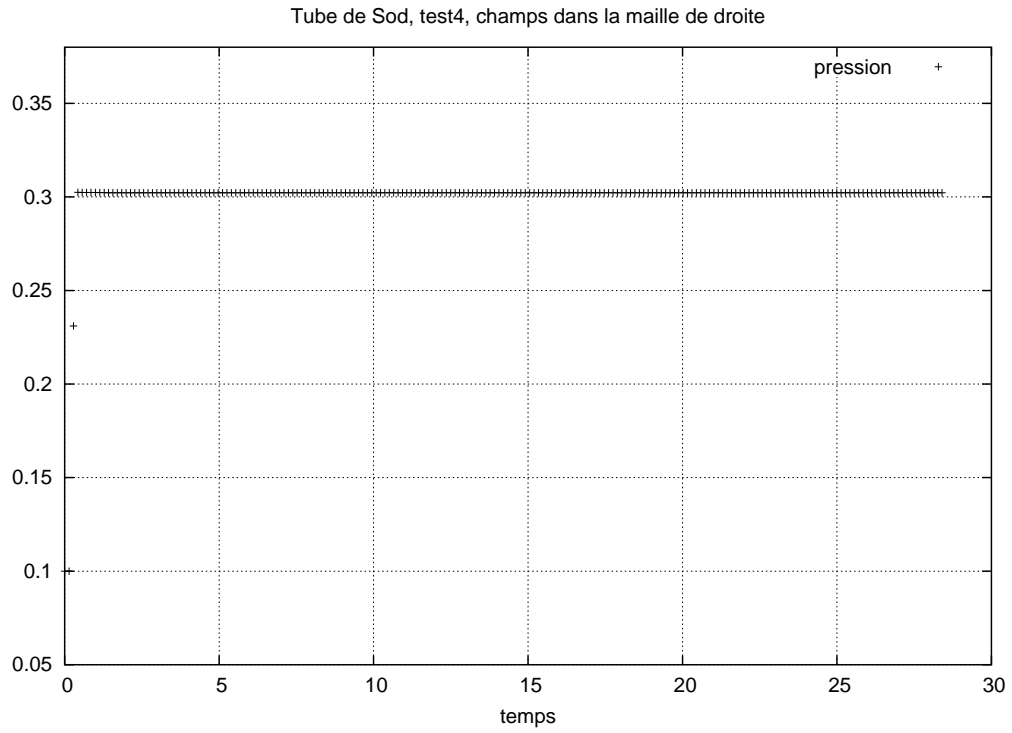


Figure 55 Tube de Sod, 100 mailles, schéma de Godunov

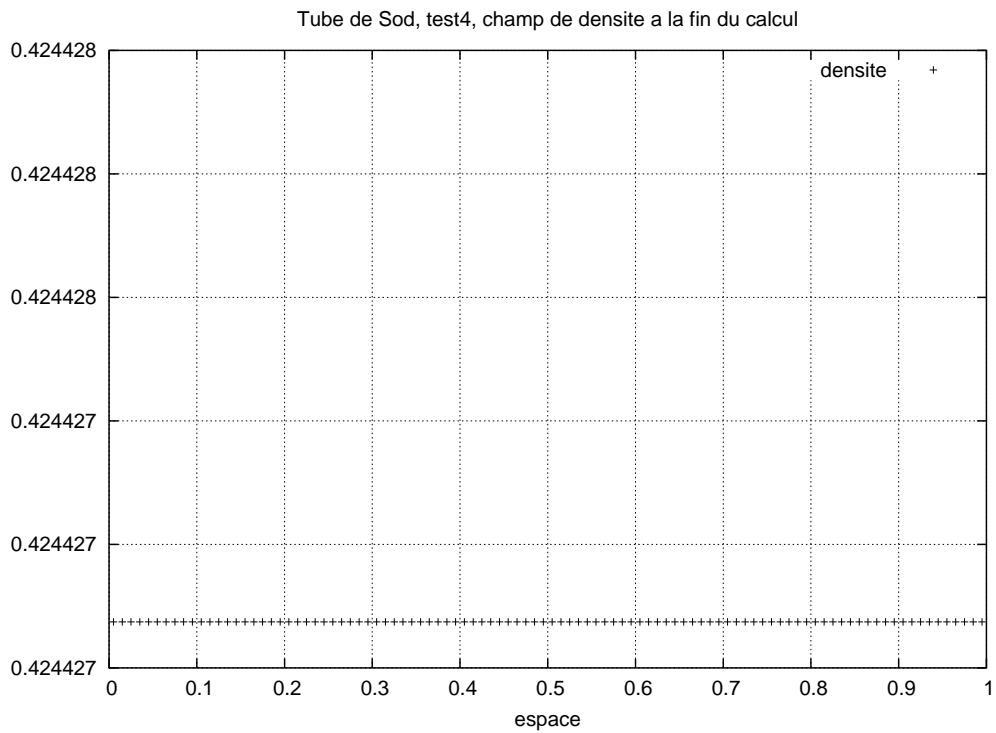


Figure 56 Tube de Sod, 100 mailles, schéma de Godunov

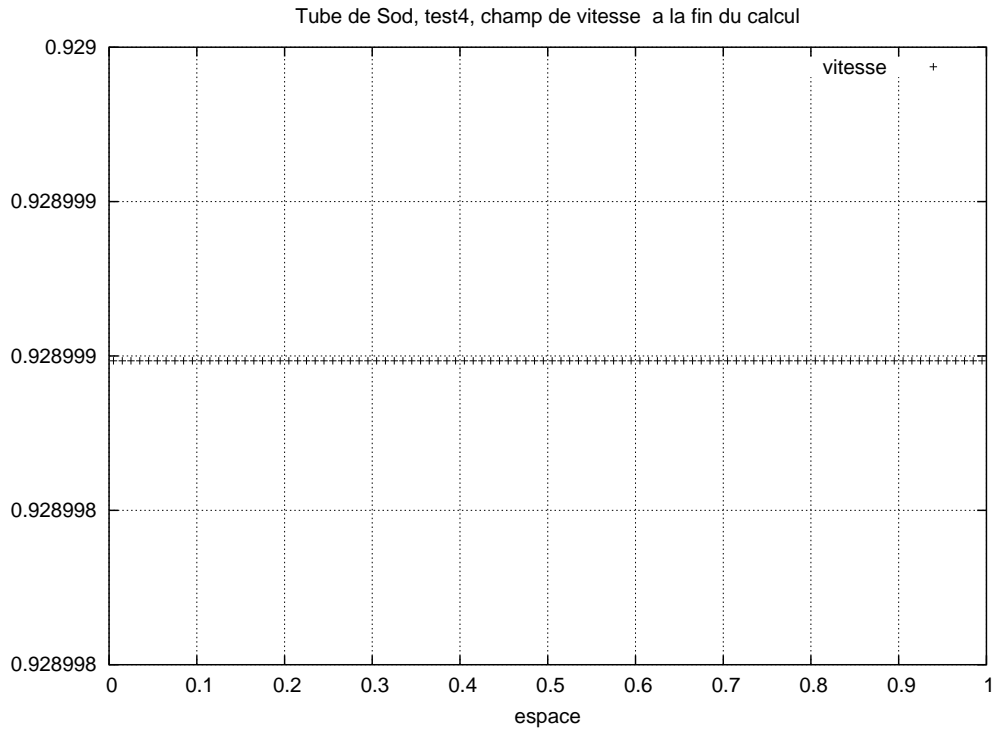


Figure 57 Tube de Sod, 100 mailles, schéma de Godunov

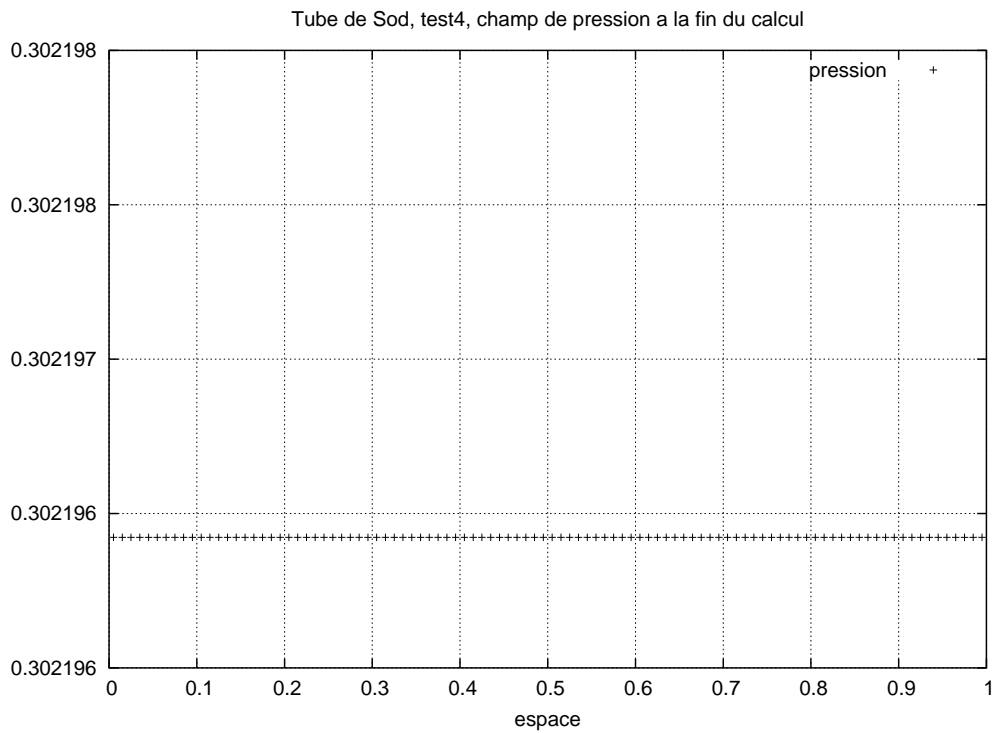


Figure 58 Tube de Sod, 100 mailles, schéma de Godunov

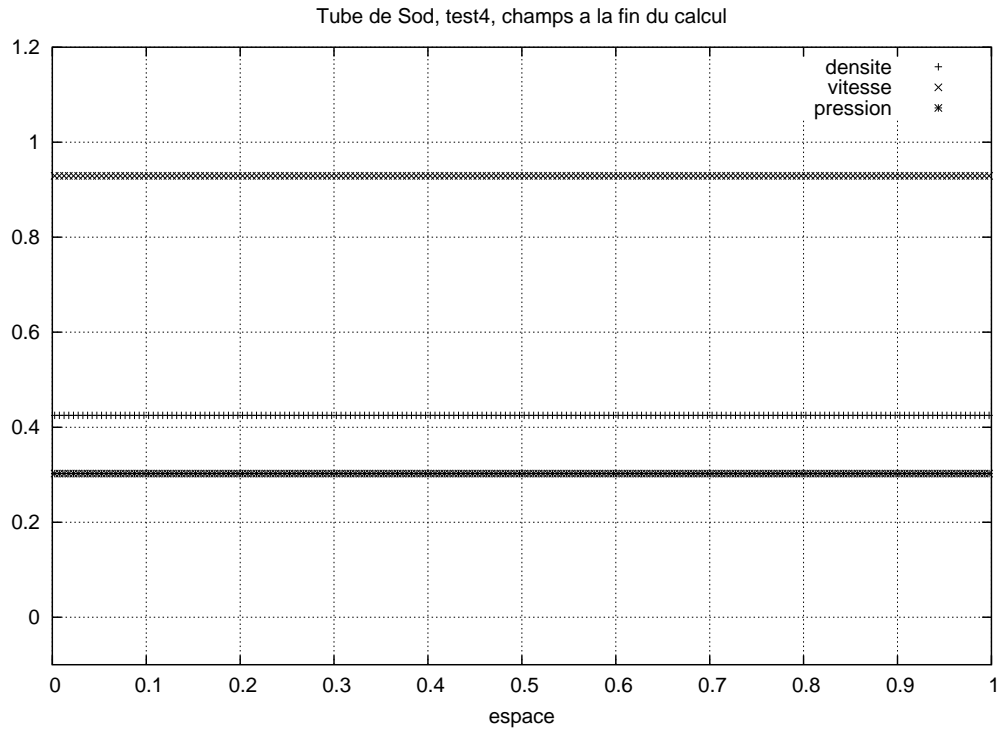


Figure 59 Tube de Sod, 200 mailles, schéma de Godunov

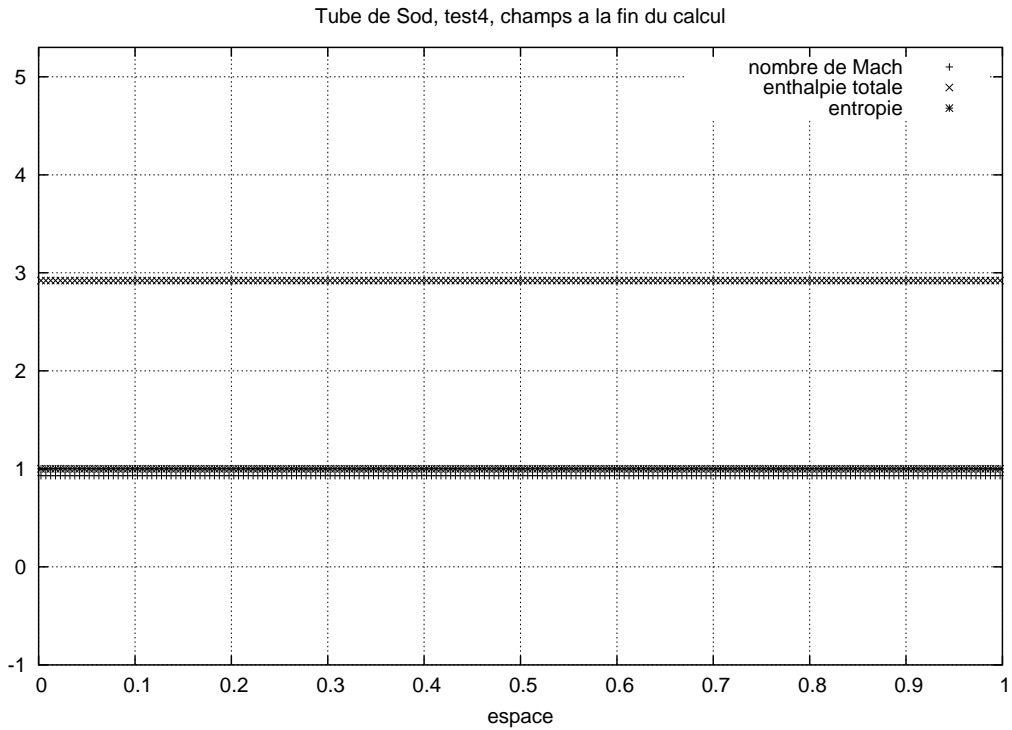


Figure 60 Tube de Sod, 200 mailles, schéma de Godunov

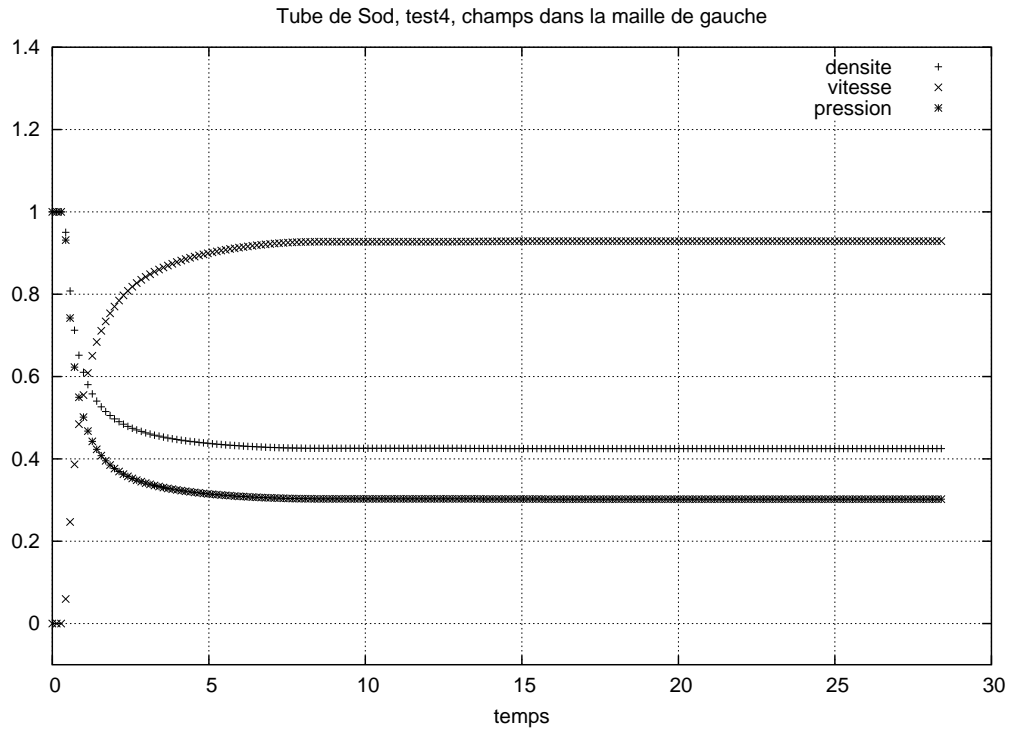


Figure 61 Tube de Sod, 200 mailles, schéma de Godunov

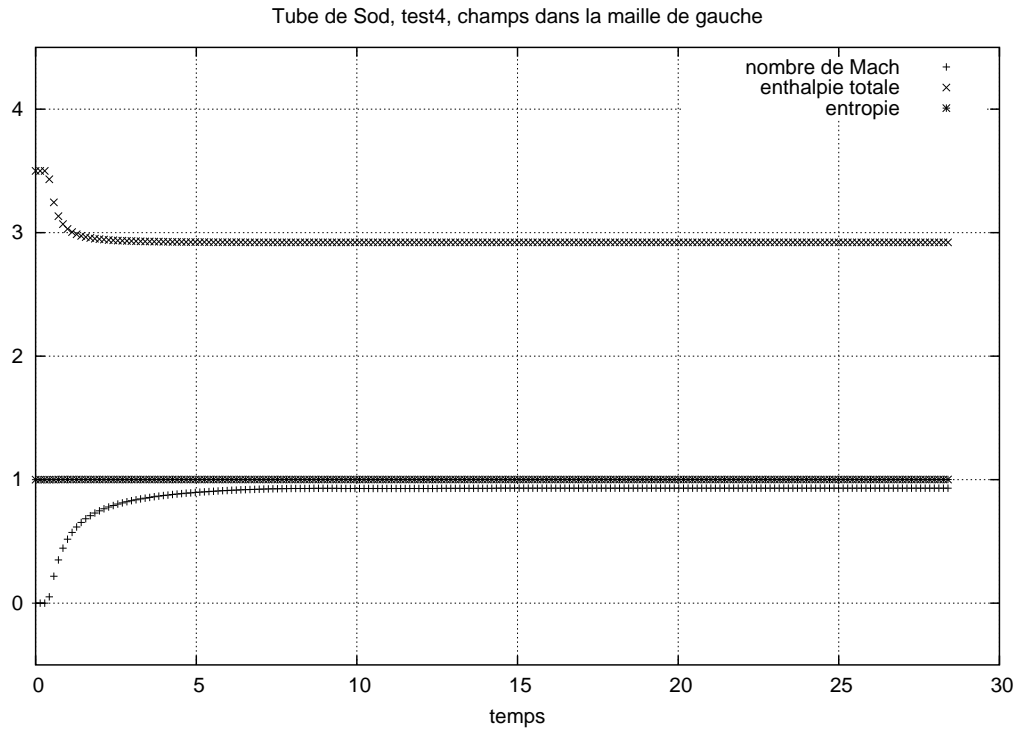


Figure 62 Tube de Sod, 200 mailles, schéma de Godunov

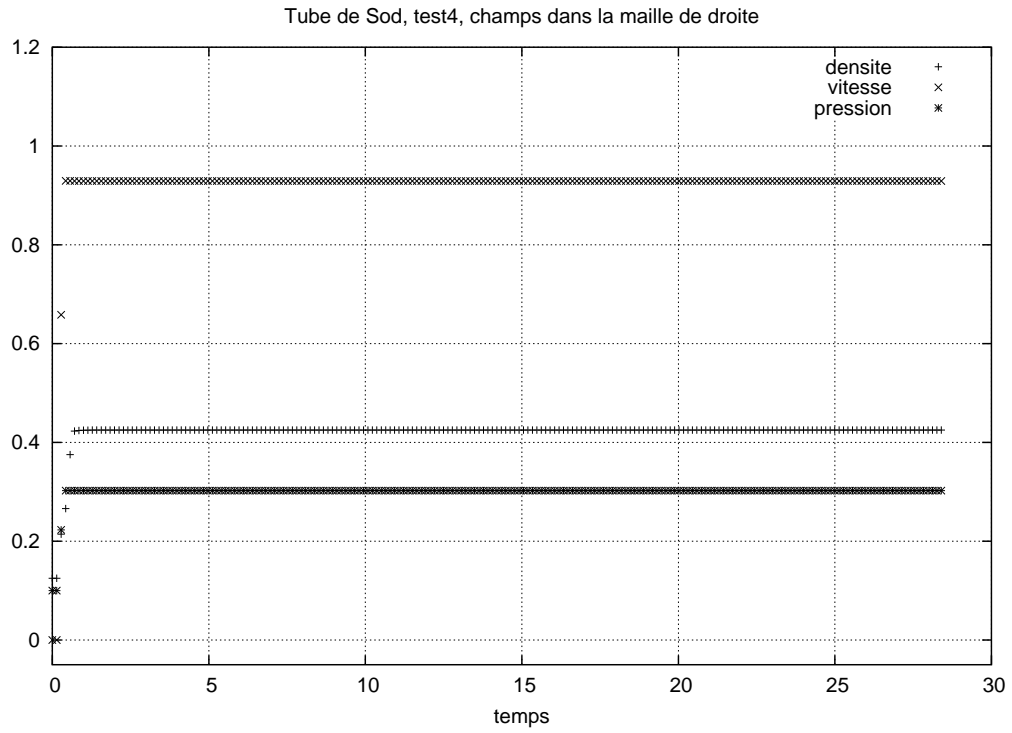


Figure 63 Tube de Sod, 200 mailles, schéma de Godunov

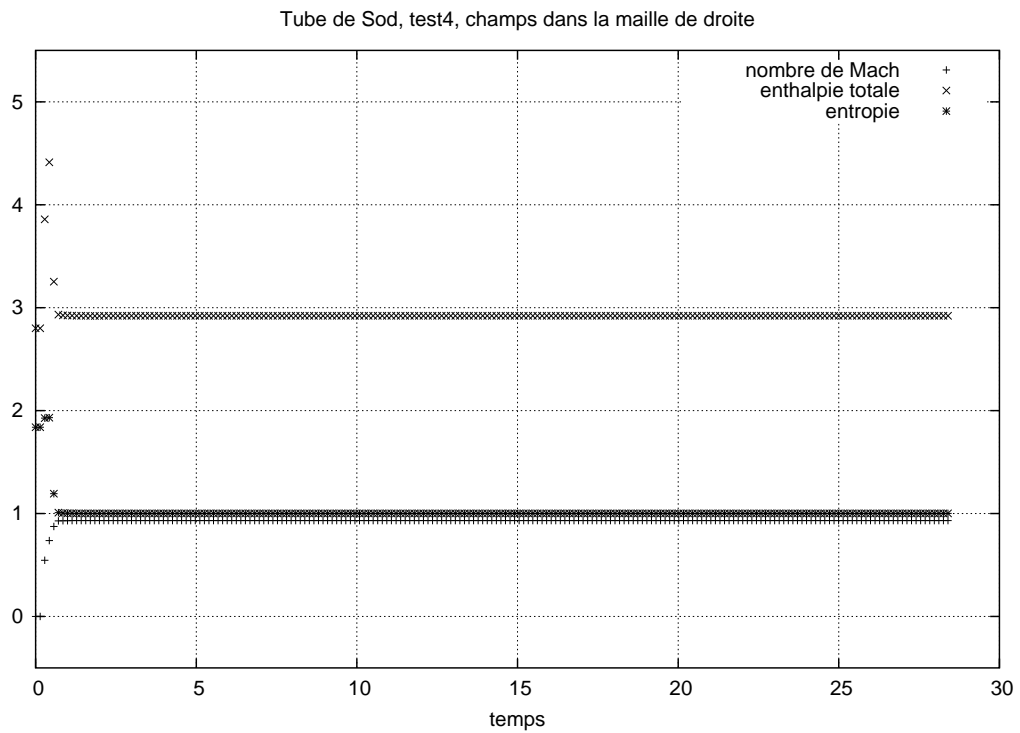


Figure 64 Tube de Sod, 200 mailles, schéma de Godunov

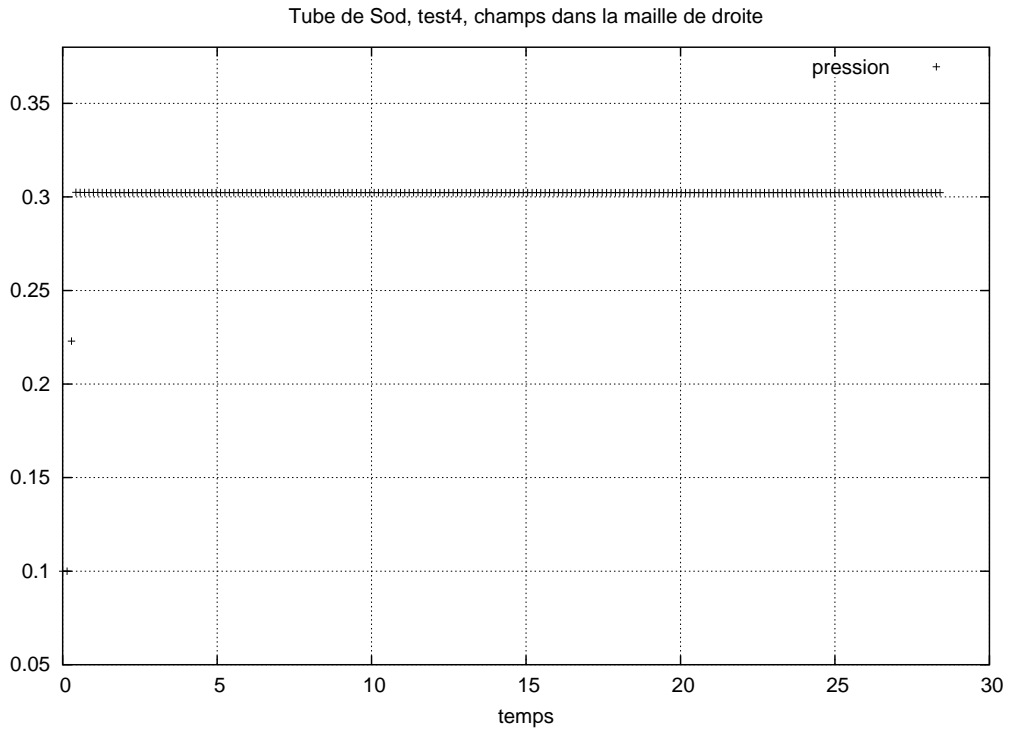


Figure 65 Tube de Sod, 200 mailles, schéma de Godunov

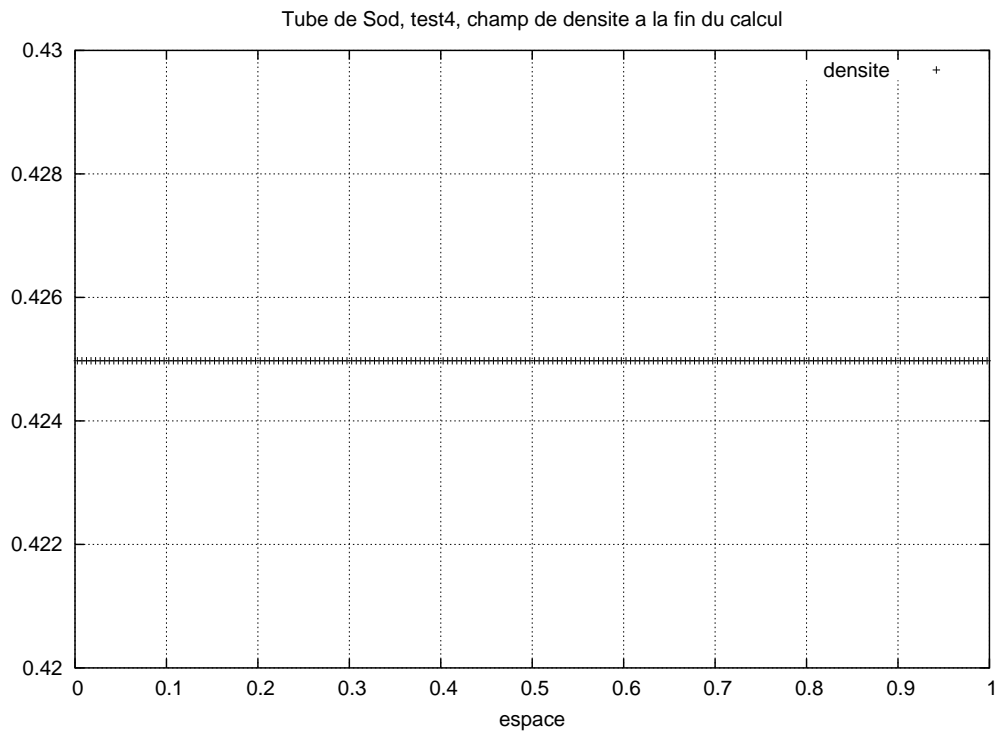


Figure 66 Tube de Sod, 200 mailles, schéma de Godunov

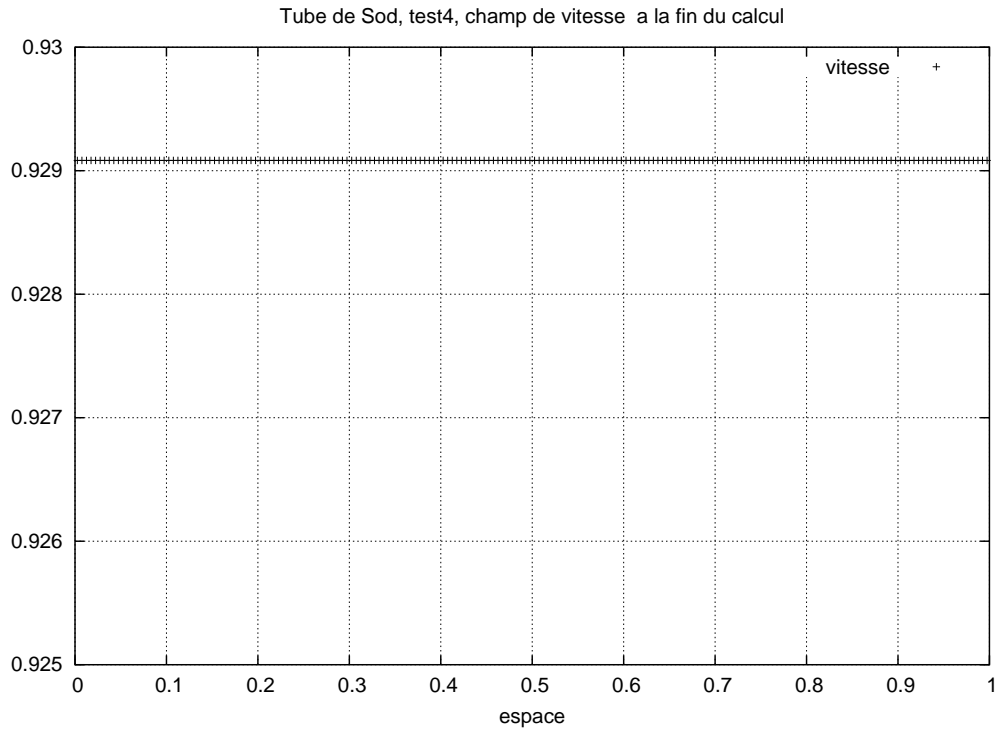


Figure 67 Tube de Sod, 200 mailles, schéma de Godunov

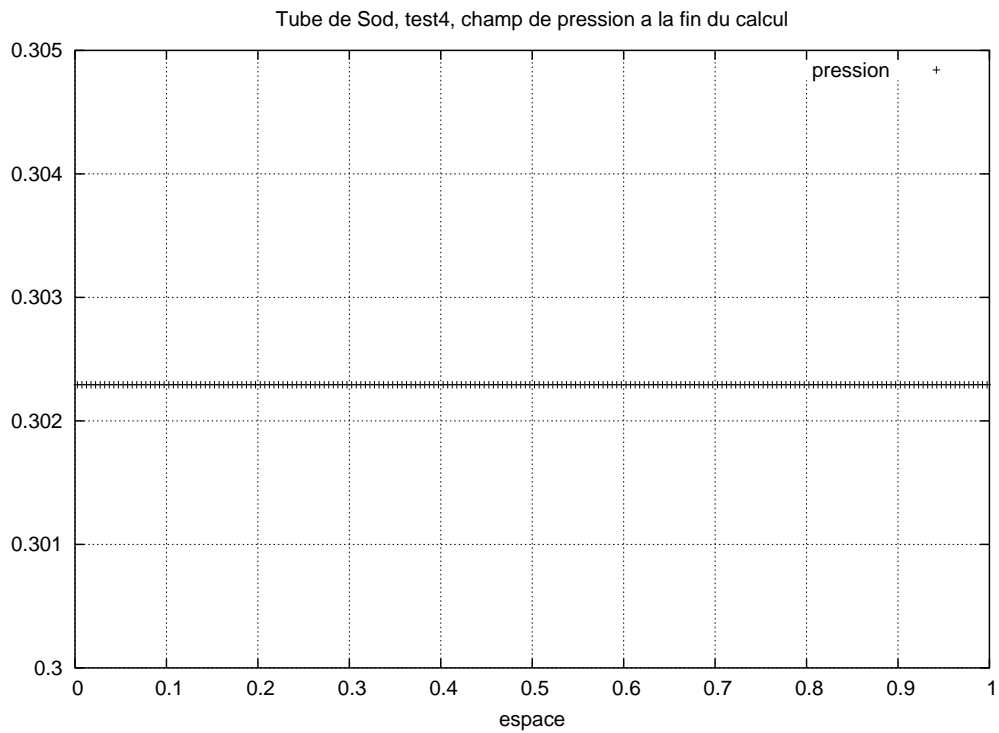


Figure 68 Tube de Sod, 200 mailles, schéma de Godunov

test5 : on va jusqu'a $t=0,142$; on utilise le schéma de Van Leer

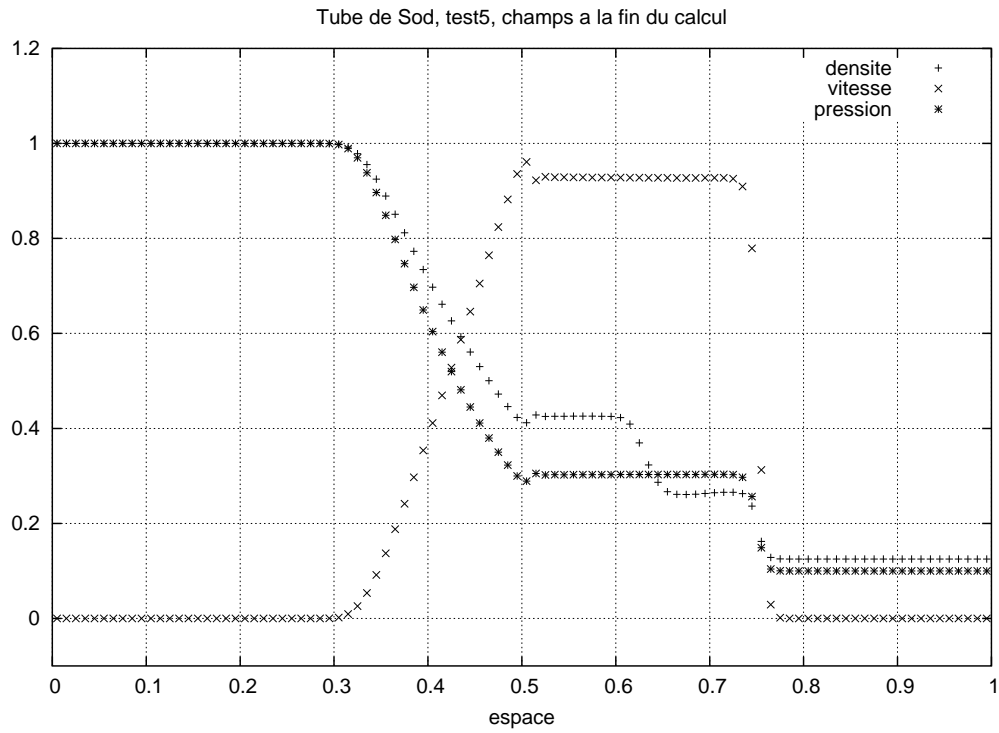


Figure 69 Tuyère de De Laval, 100 mailles, schéma de Van Leer

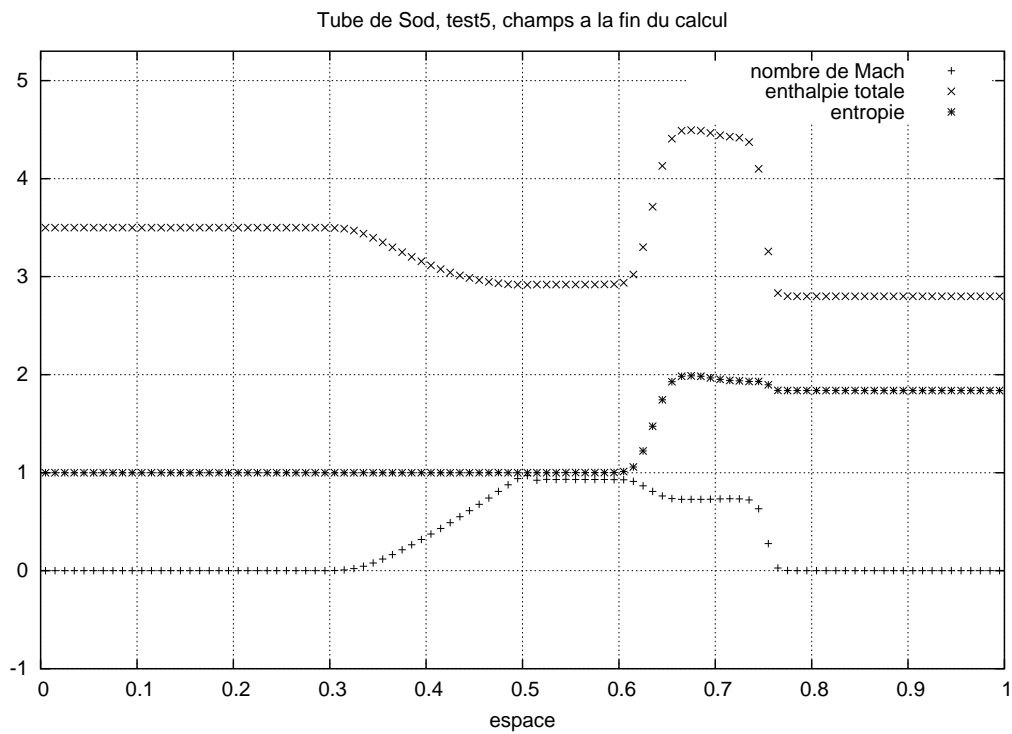


Figure 70 Tube de Sod, 100 mailles, schéma de Van Leer

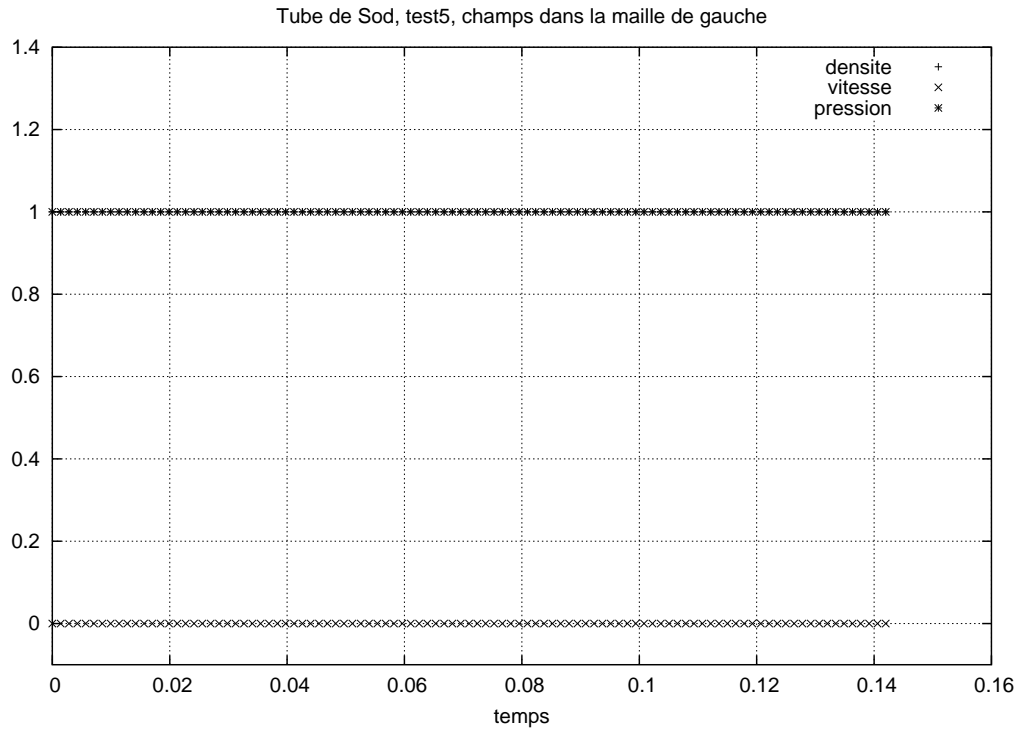


Figure 71 Tube de Sod, 100 mailles, schéma de Van Leer

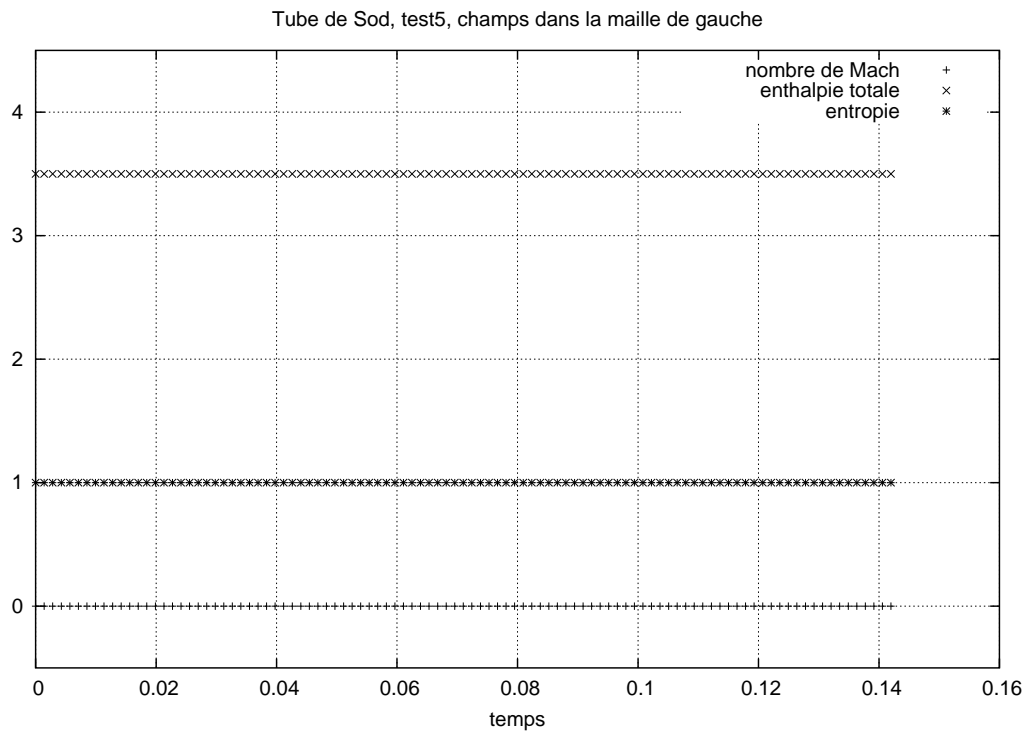


Figure 72 Tube de Sod, 100 mailles, schéma de Van Leer

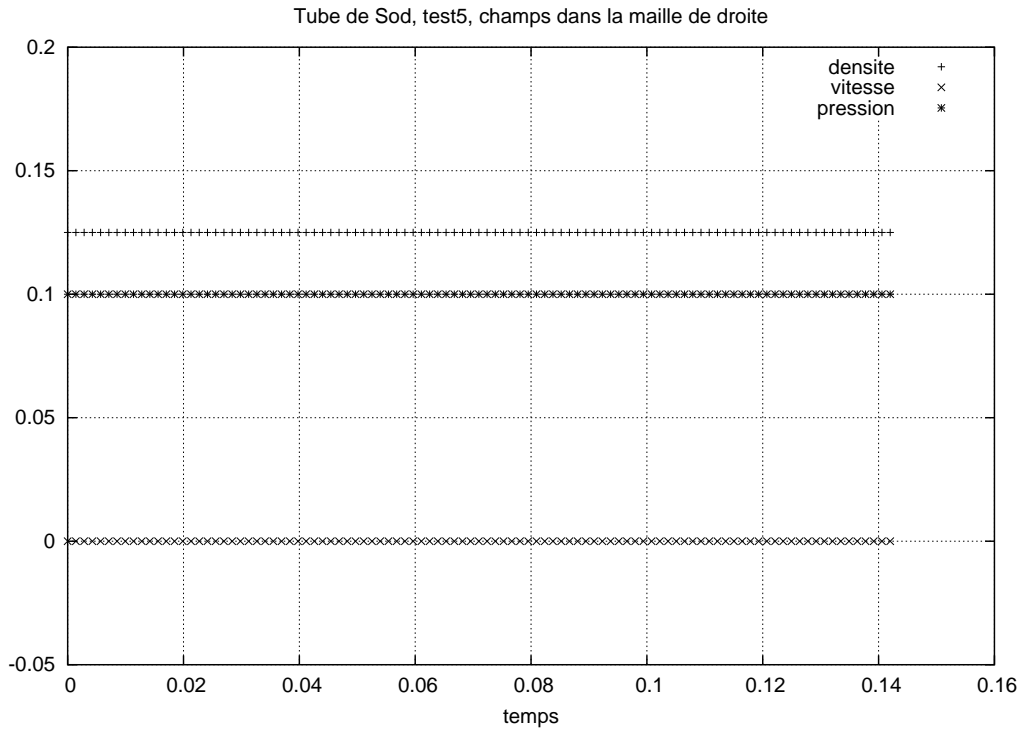


Figure 73 Tube de Sod, 100 mailles, schéma de Van Leer

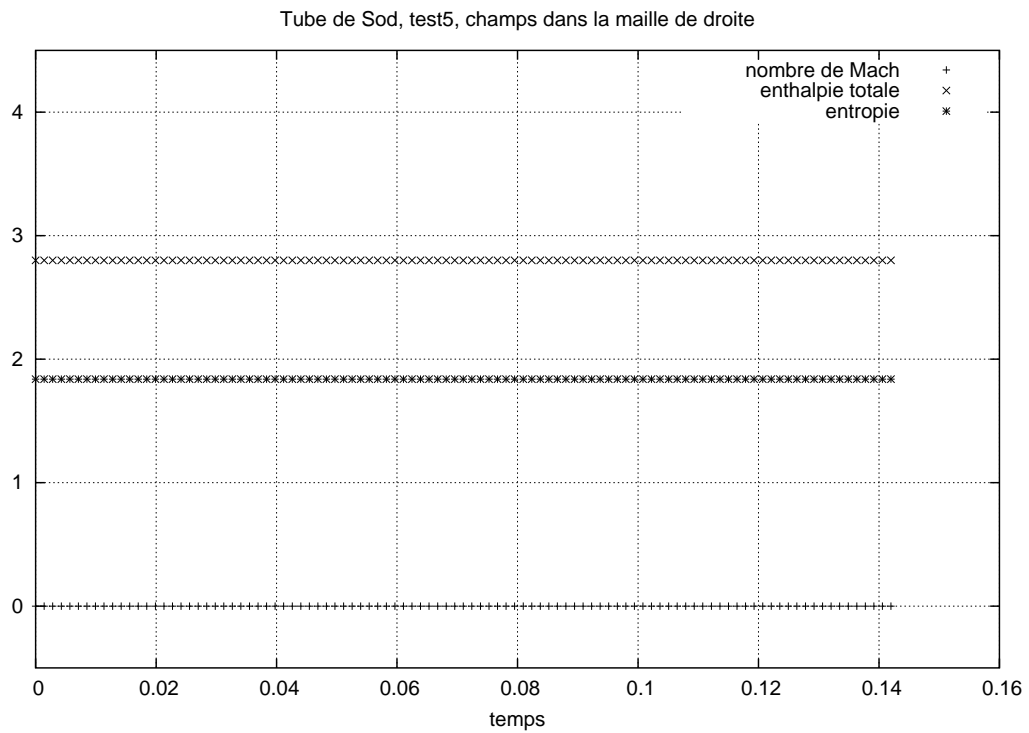


Figure 74 Tube de Sod, 100 mailles, schéma de Van Leer

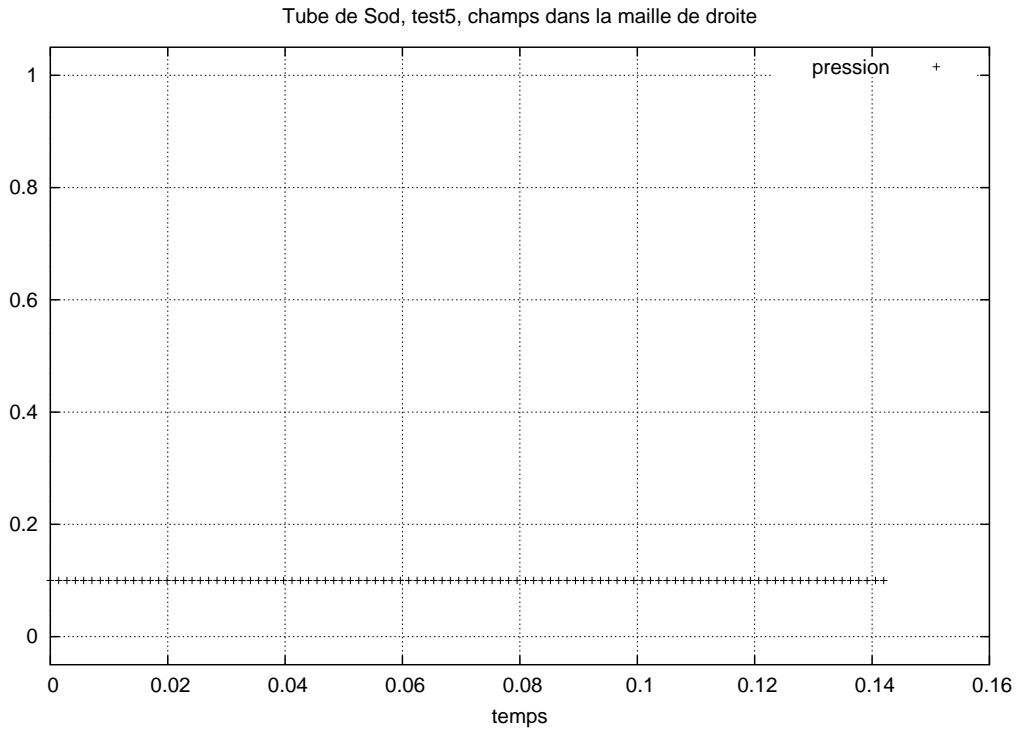


Figure 75 Tube de Sod, 100 mailles, schéma de Van Leer

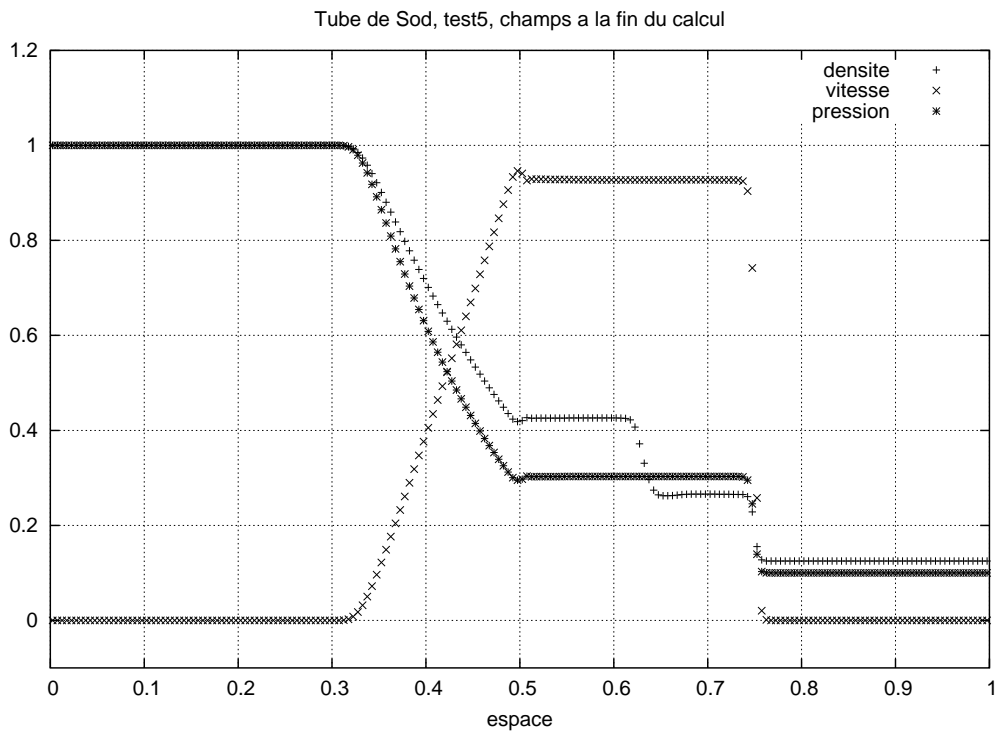


Figure 76 Tube de Sod, 200 mailles, schéma de Van Leer

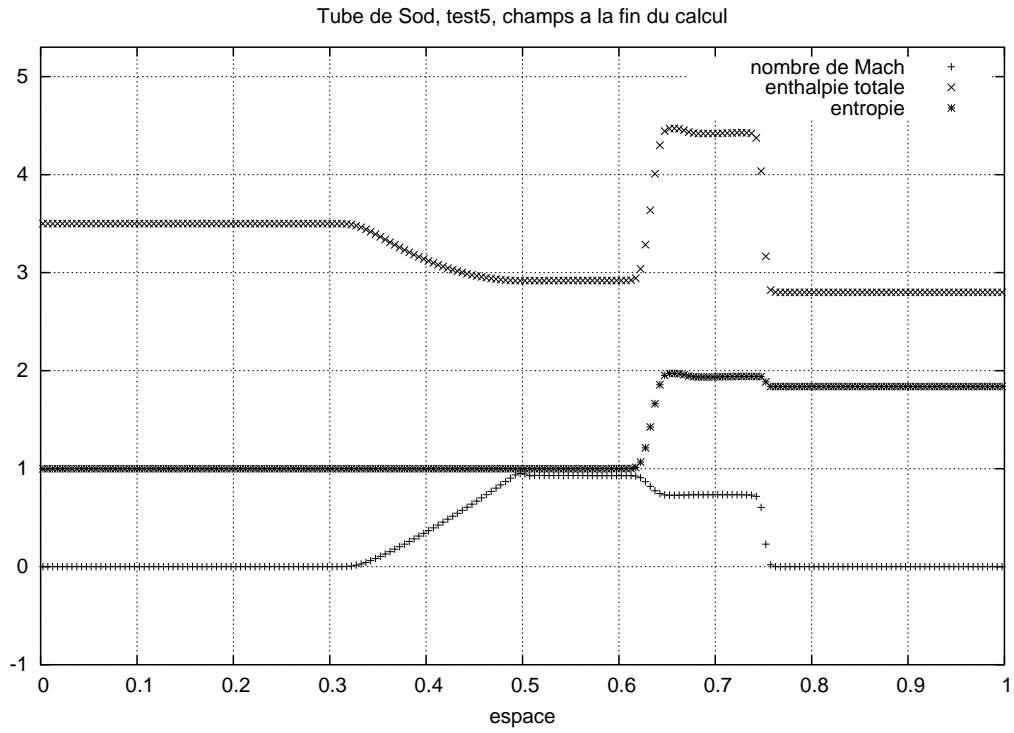


Figure 77 Tube de Sod, 200 mailles, schéma de Van Leer

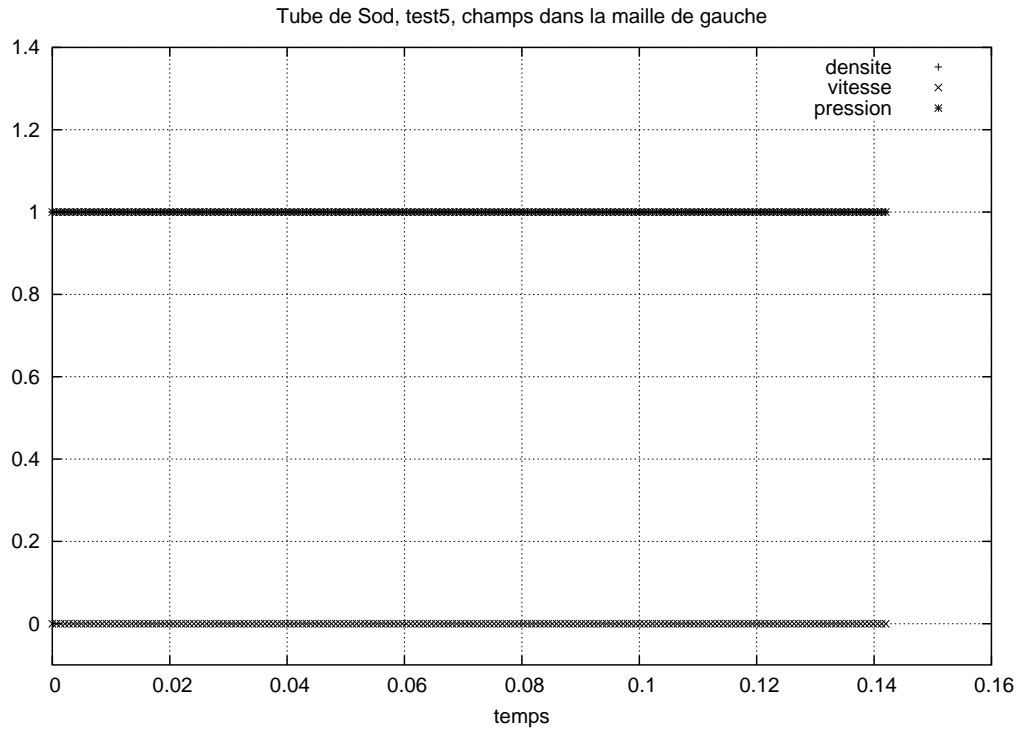


Figure 78 Tube de Sod, 200 mailles, schéma de Van Leer

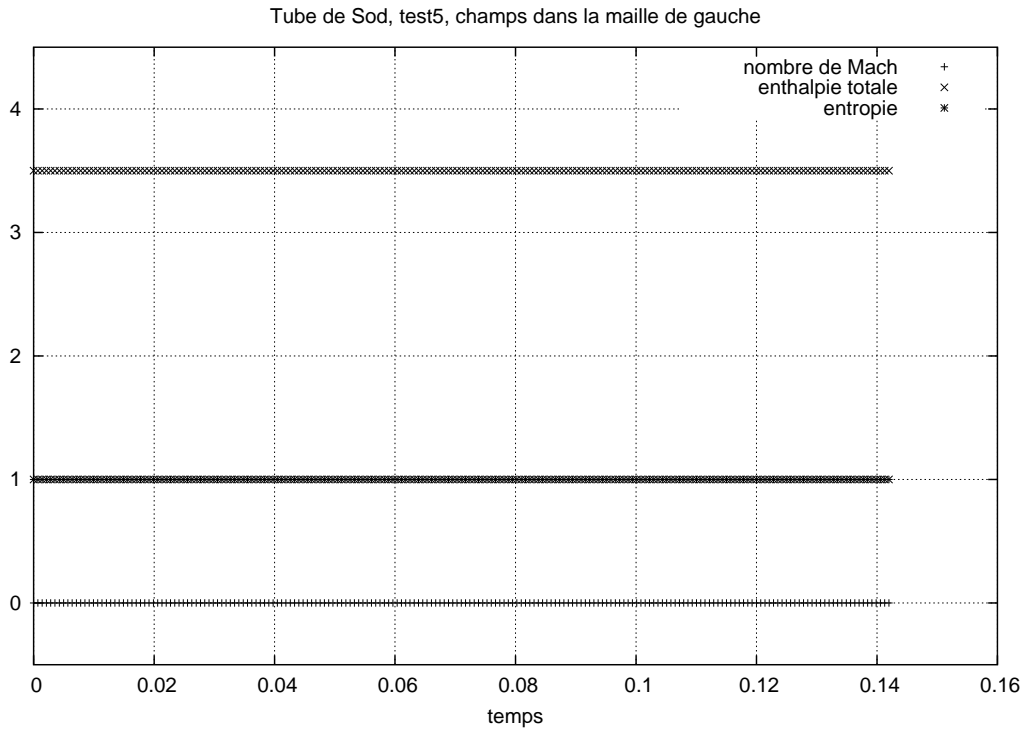


Figure 79 Tube de Sod, 200 mailles, schéma de Van Leer

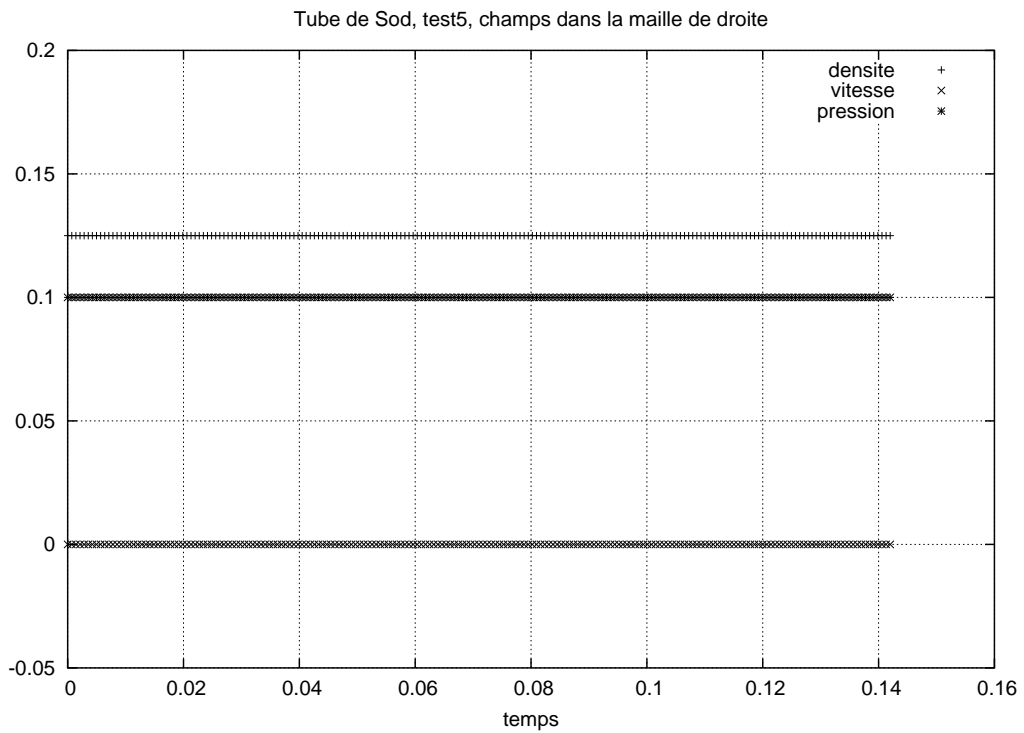


Figure 80 Tube de Sod, 200 mailles, schéma de Van Leer

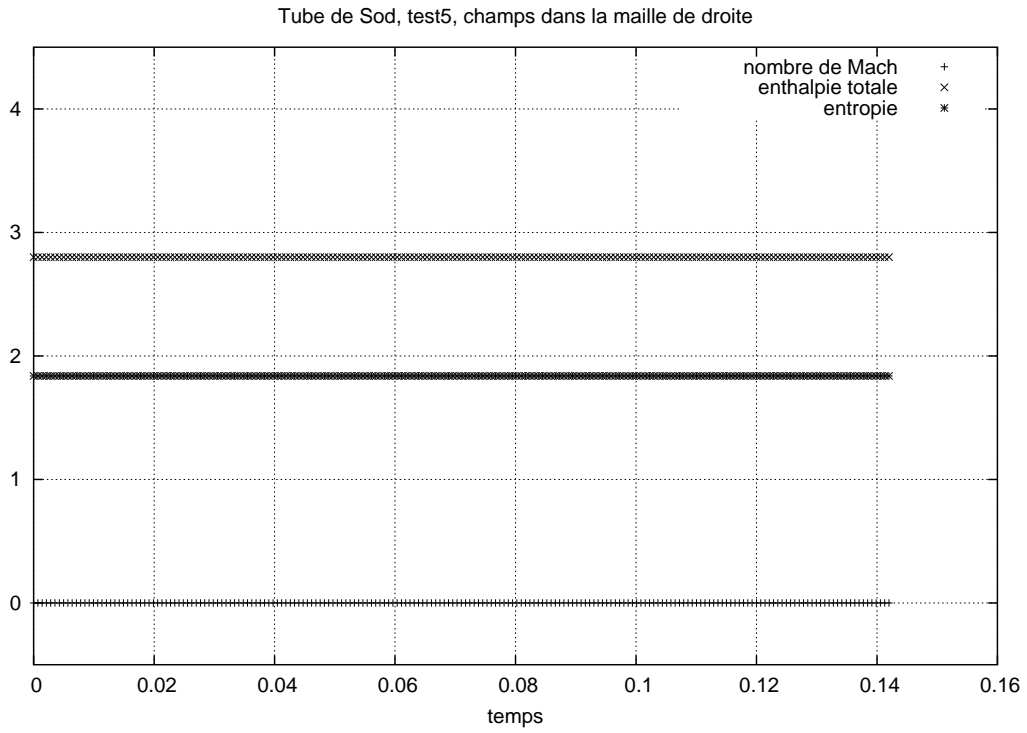


Figure 81 Tube de Sod, 200 mailles, schéma de Van Leer

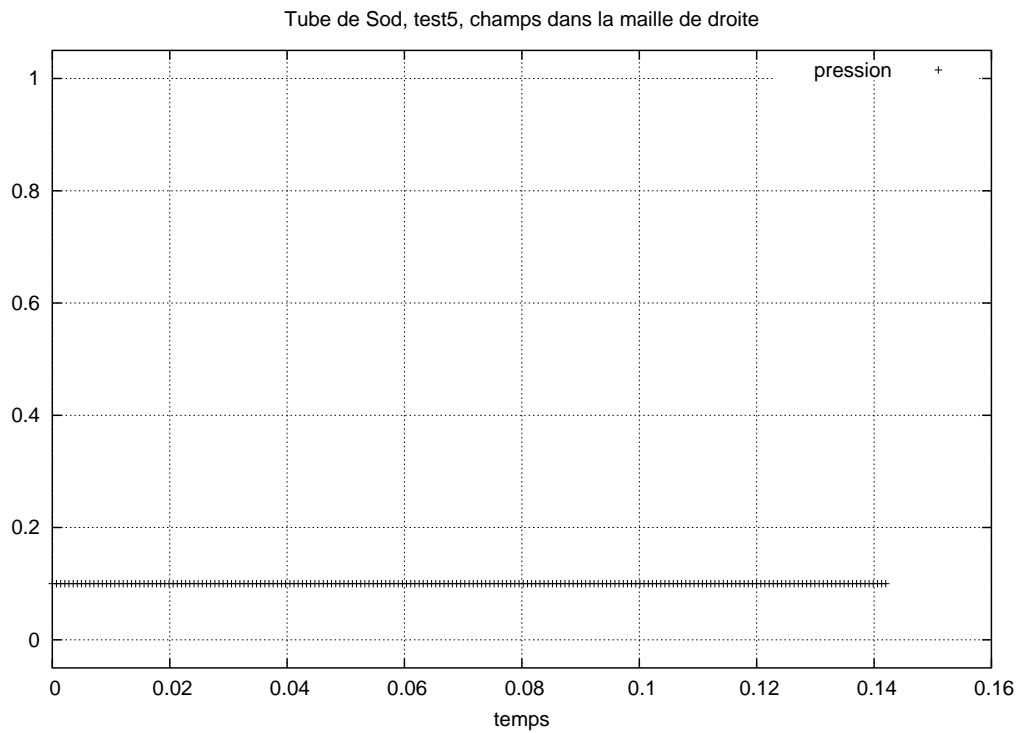


Figure 82 Tube de Sod, 200 mailles, schéma de Van Leer

test6 : on va jusqu'a $t=1,42$ avec le schéma de Van Leer

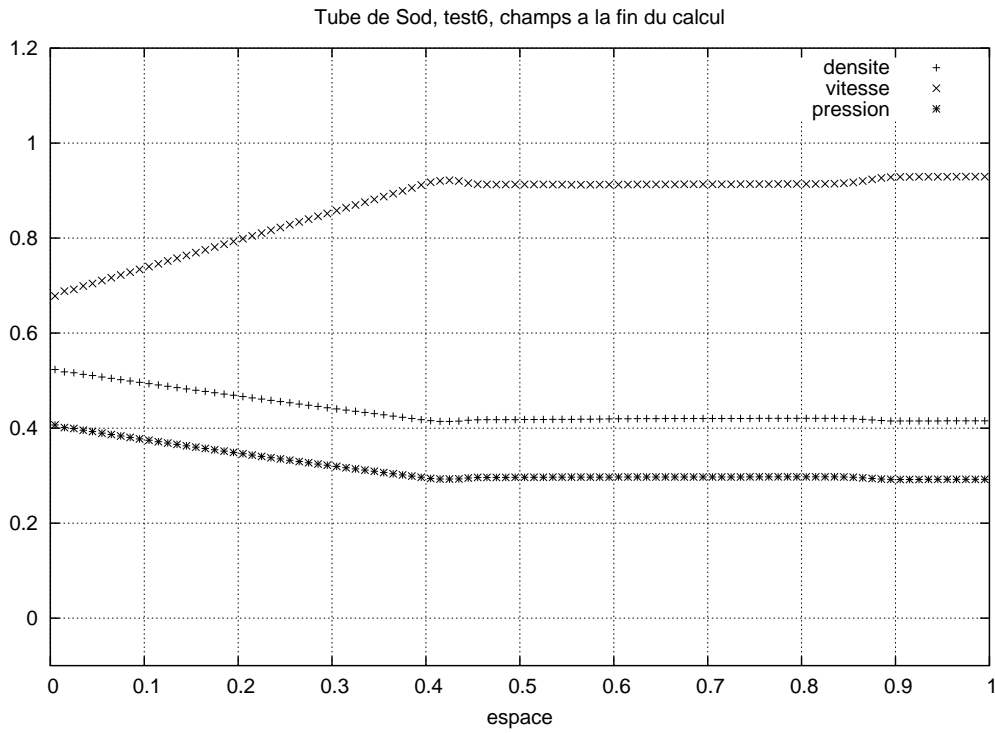


Figure 83 Tube de Sod, 100 mailles, schéma de Van Leer

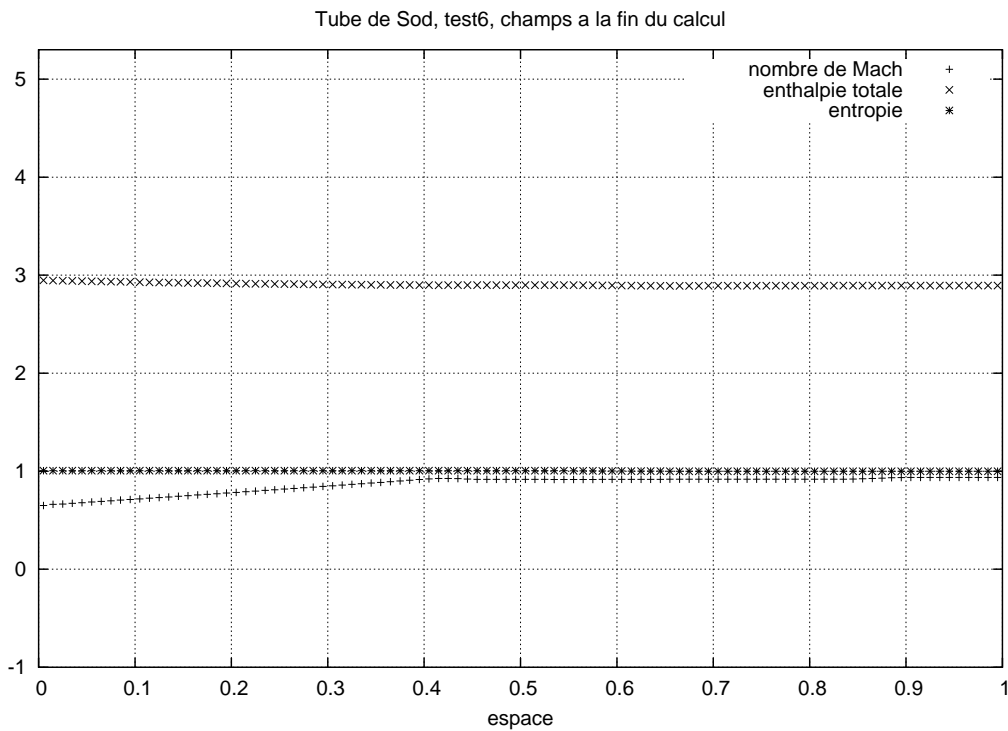


Figure 84 Tube de Sod, 100 mailles, schéma de Van Leer

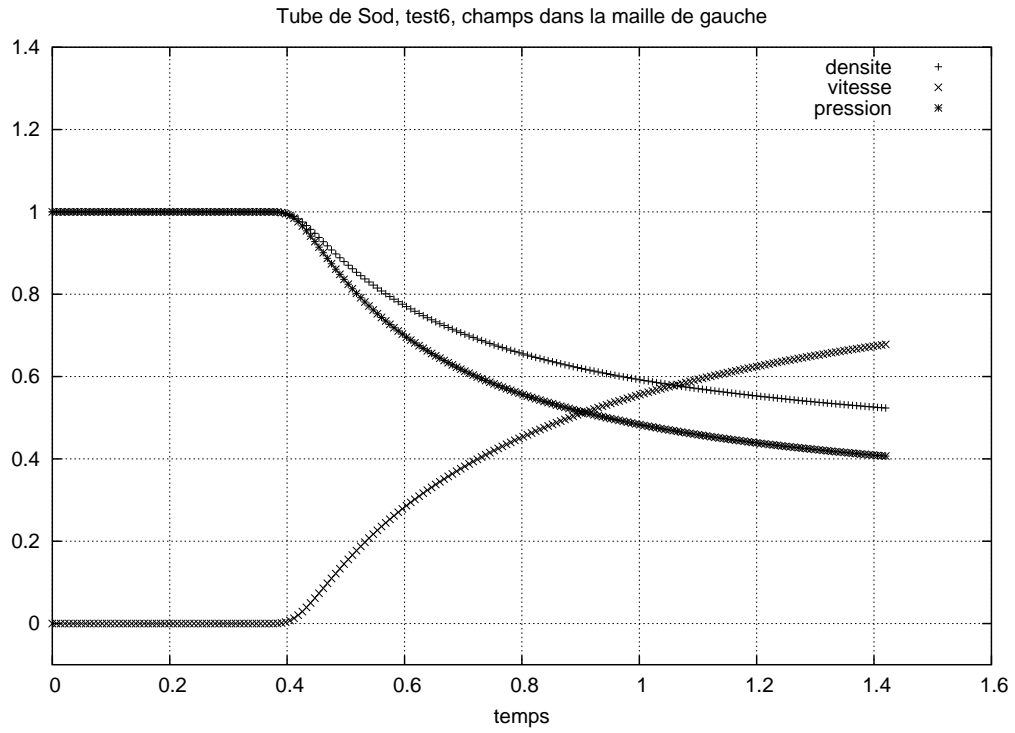


Figure 85 Tube de Sod, 100 mailles, schéma de Van Leer

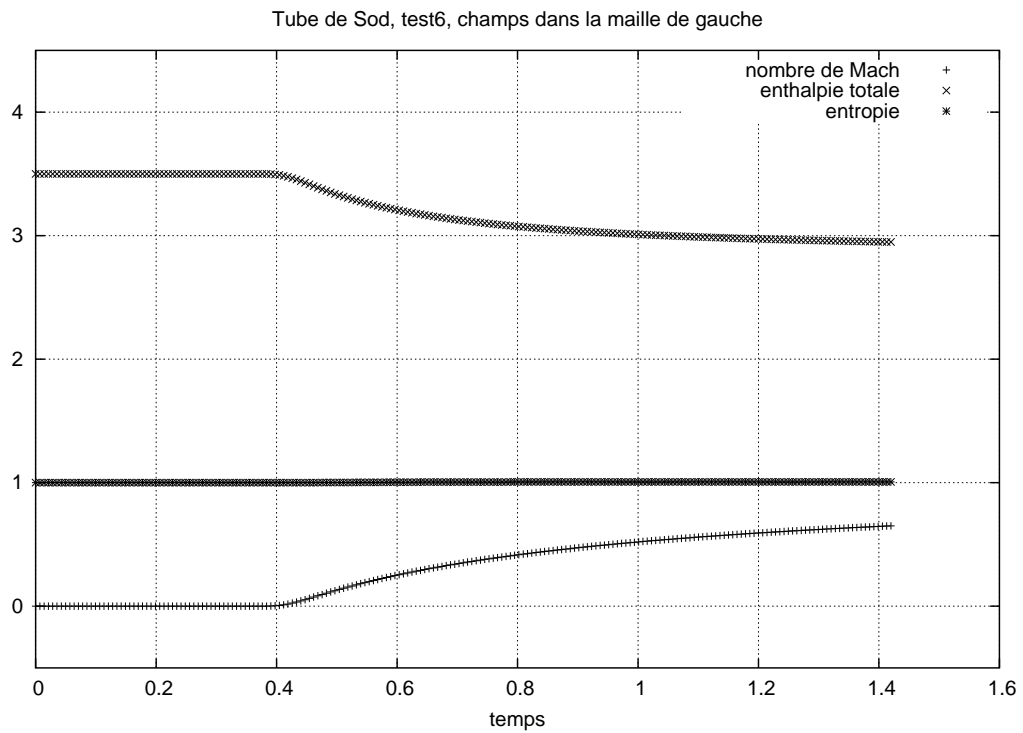


Figure 86 Tube de Sod, 100 mailles, schéma de Van Leer

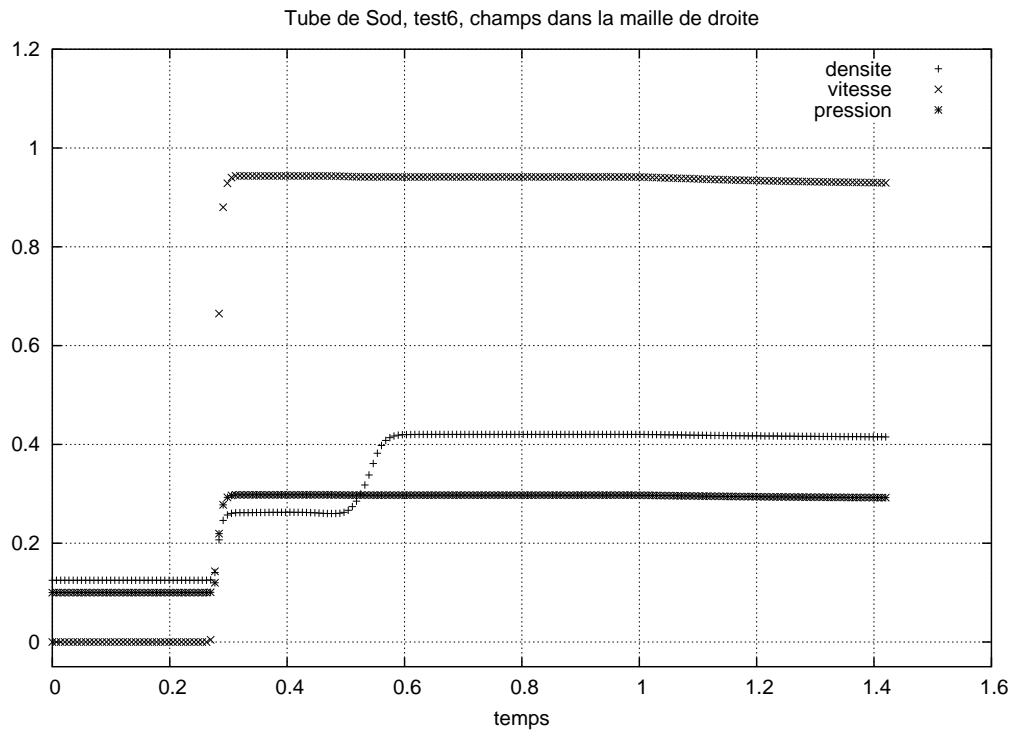


Figure 87 Tube de Sod, 100 mailles, schéma de Van Leer

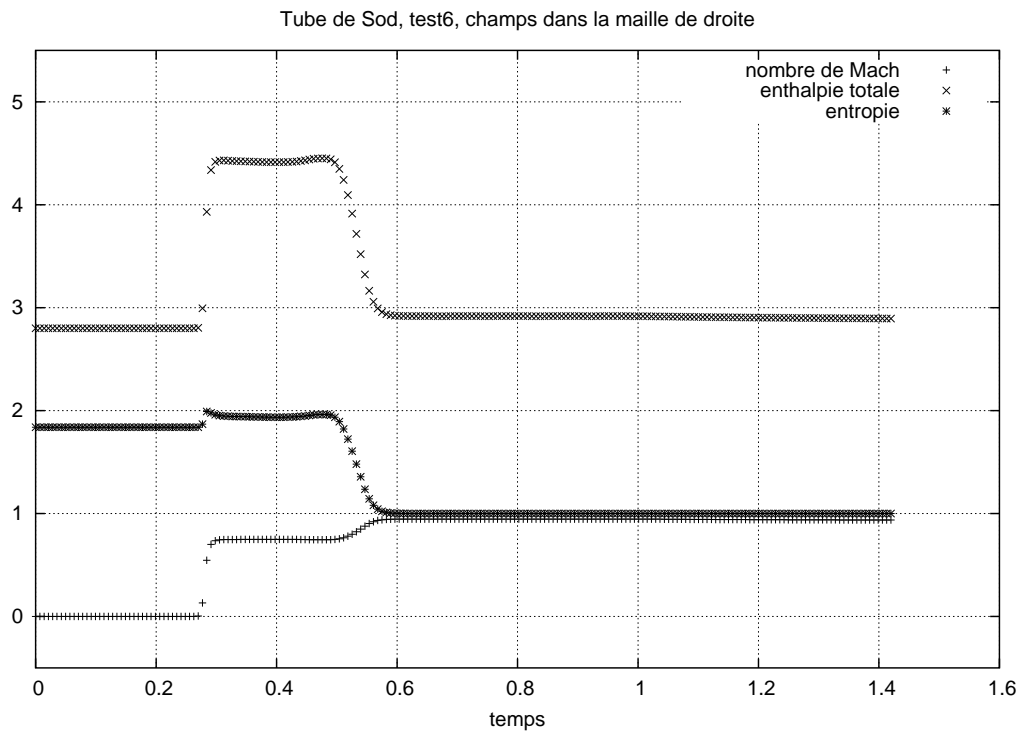


Figure 88 Tube de Sod, 100 mailles, schéma de Van Leer

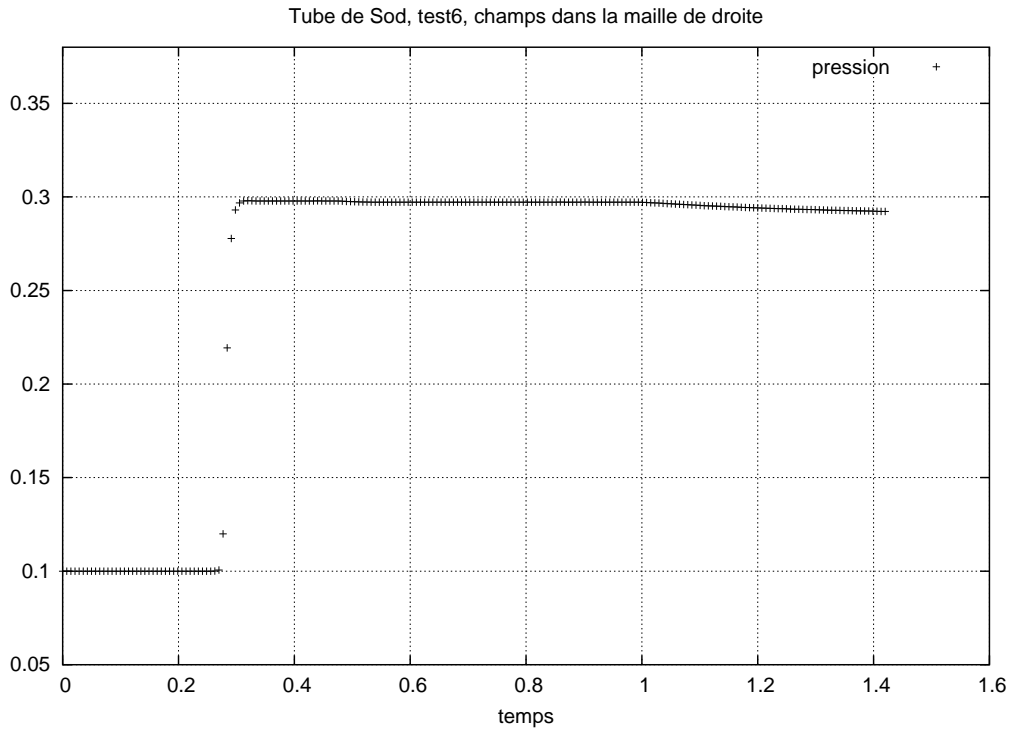


Figure 89 Tube de Sod, 100 mailles, schéma de Van Leer

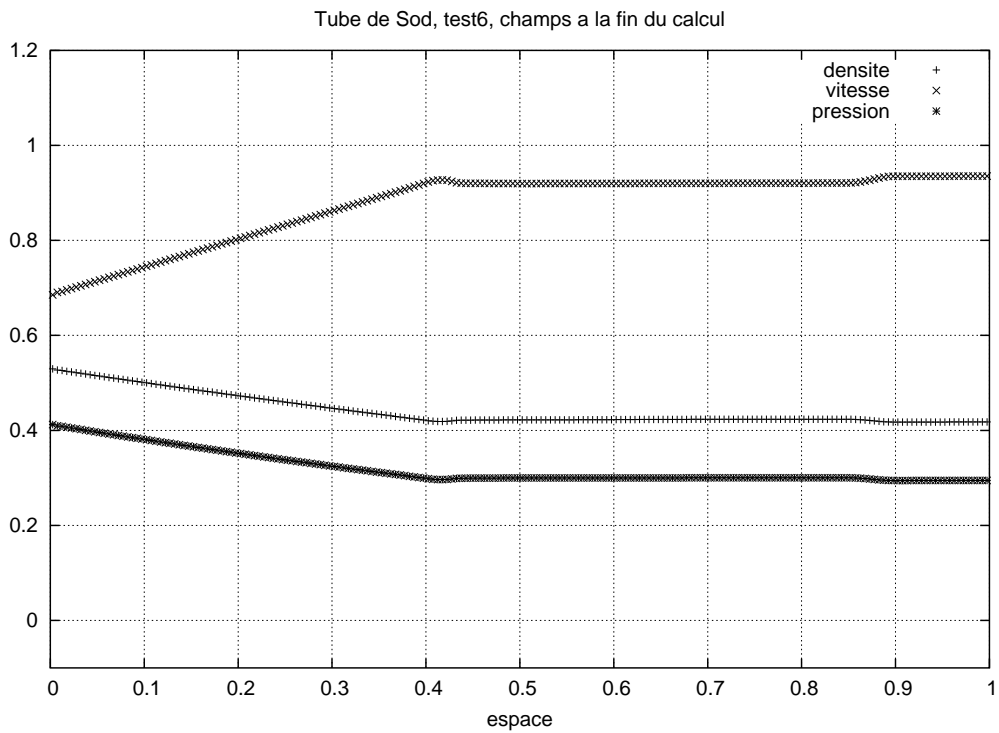


Figure 90 Tube de Sod, 200 mailles, schéma de Van Leer

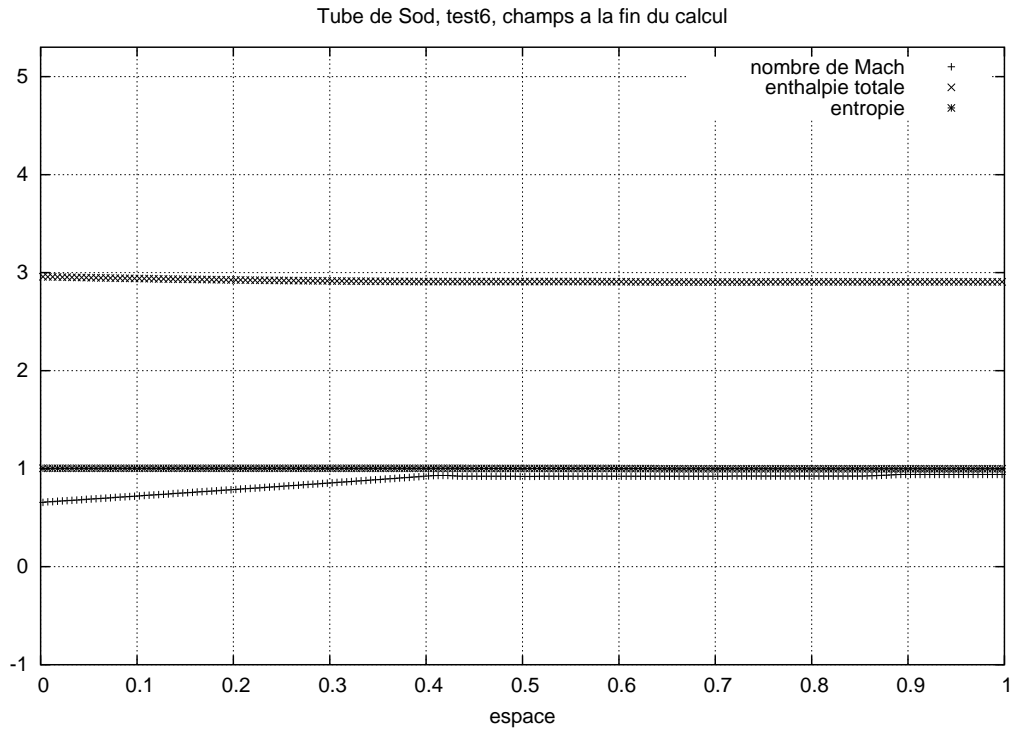


Figure 91 Tube de Sod, 200 mailles, schéma de Van Leer

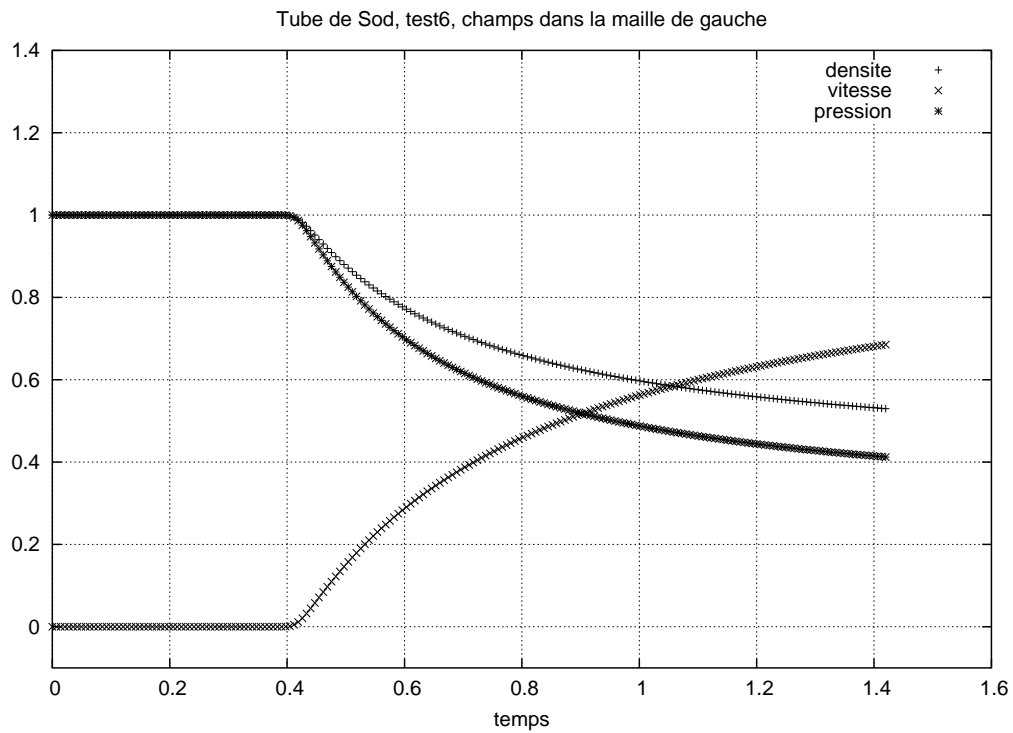


Figure 92 Tube de Sod, 200 mailles, schéma de Van Leer

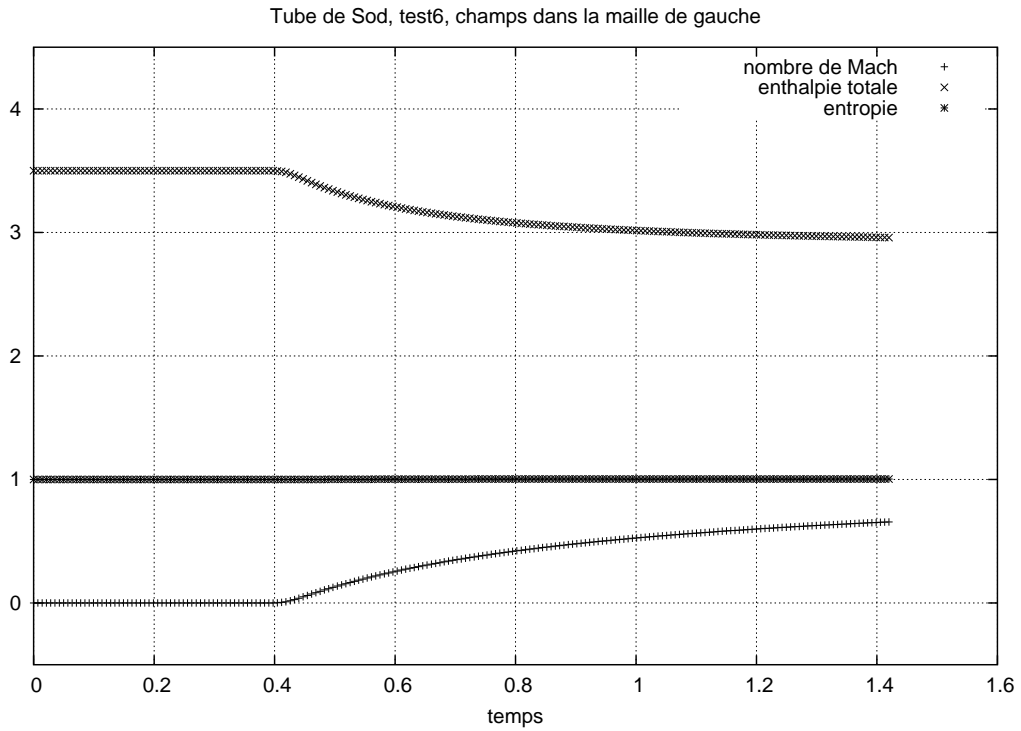


Figure 93 Tube de Sod, 200 mailles, schéma de Van Leer

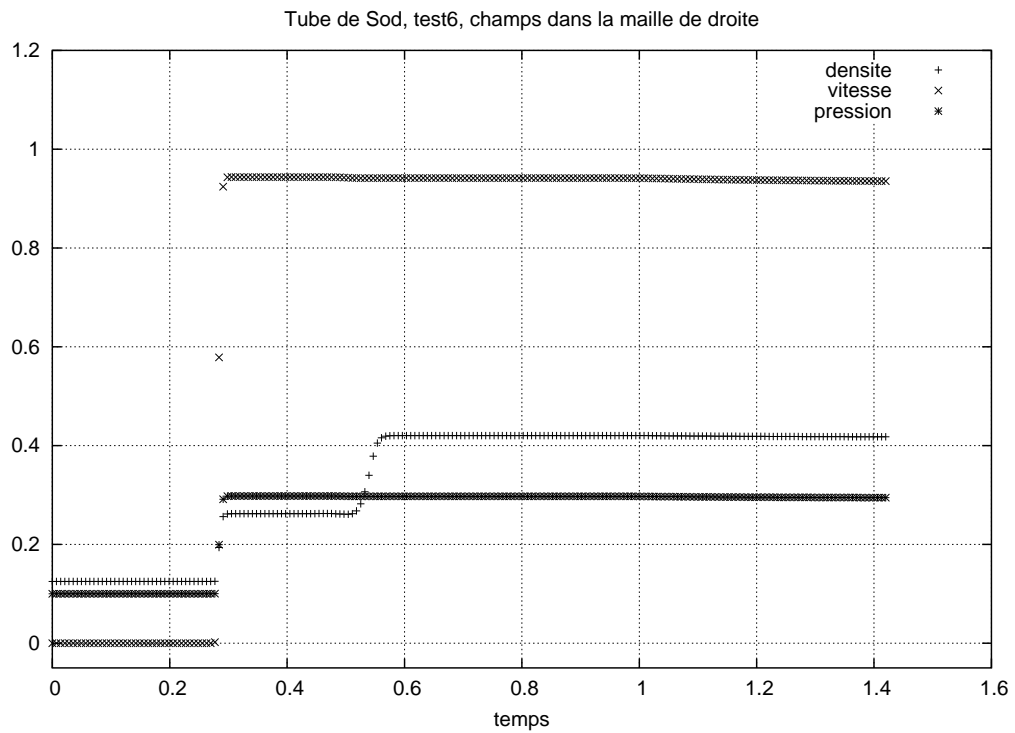


Figure 94 Tube de Sod, 200 mailles, schéma de Van Leer

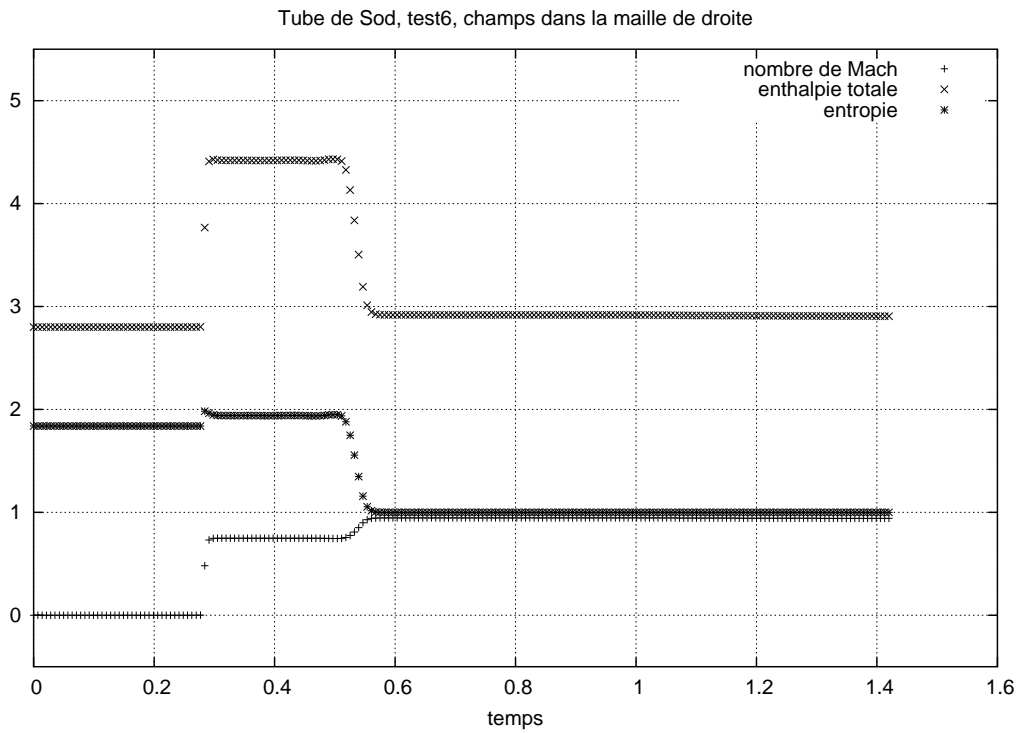


Figure 95 Tube de Sod, 200 mailles, schéma de Van Leer

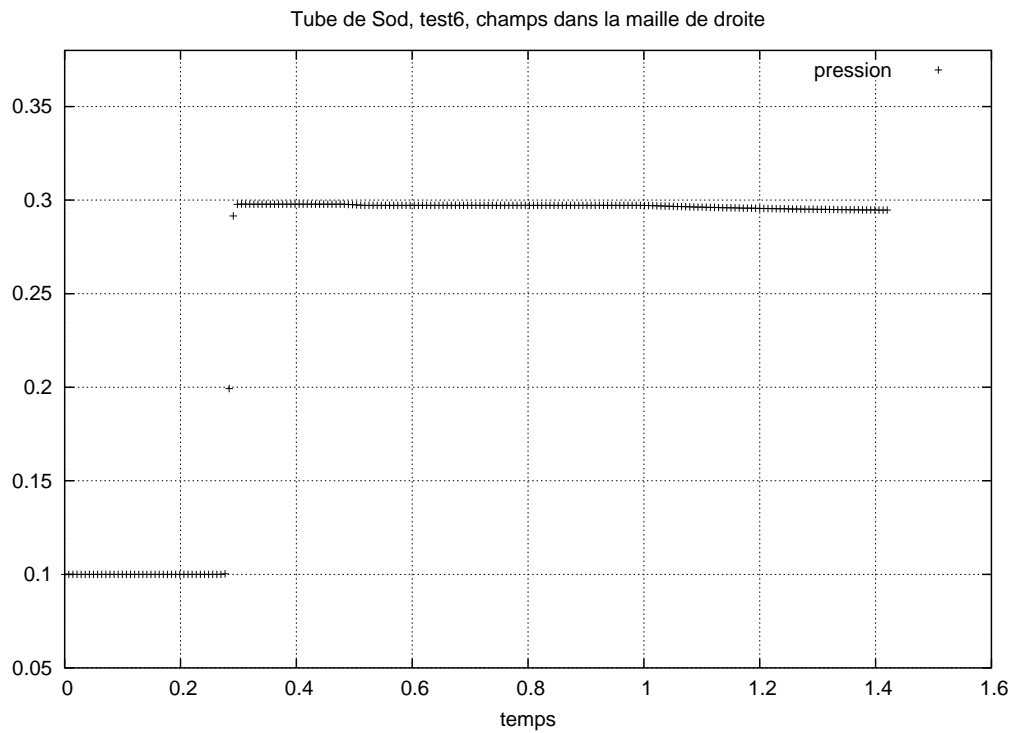


Figure 96 Tube de Sod, 200 mailles, schéma de Van Leer

test7 : on va jusqu'a $t=8,52$; utilise le schéma de Van Leer

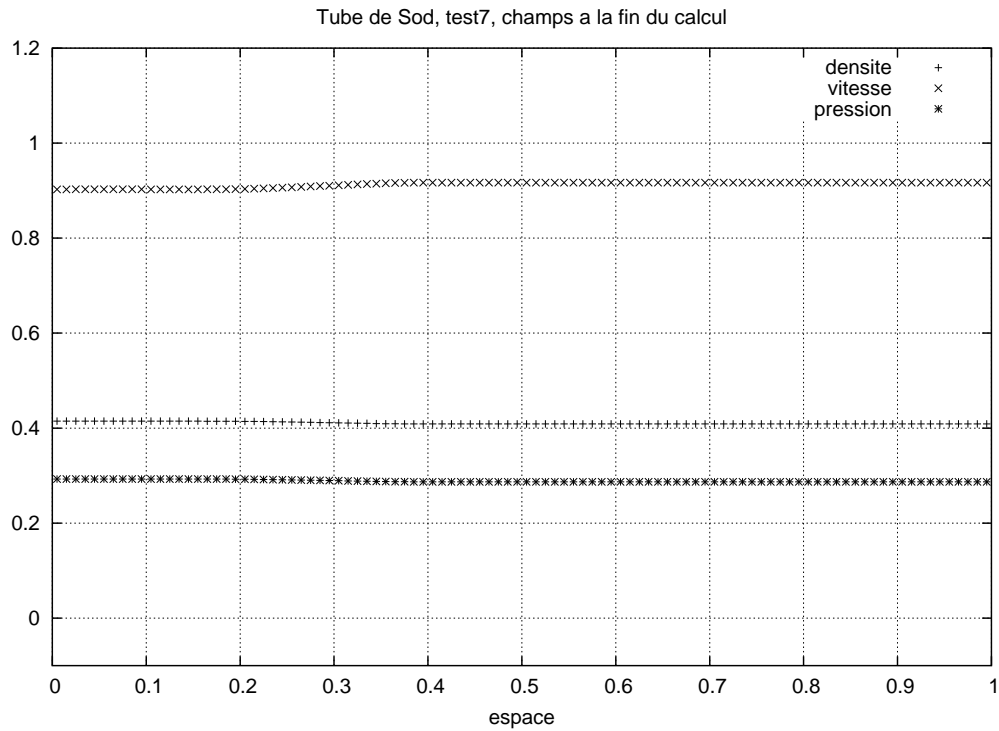


Figure 97 Tube de Sod, 100 mailles, schéma de Van Leer

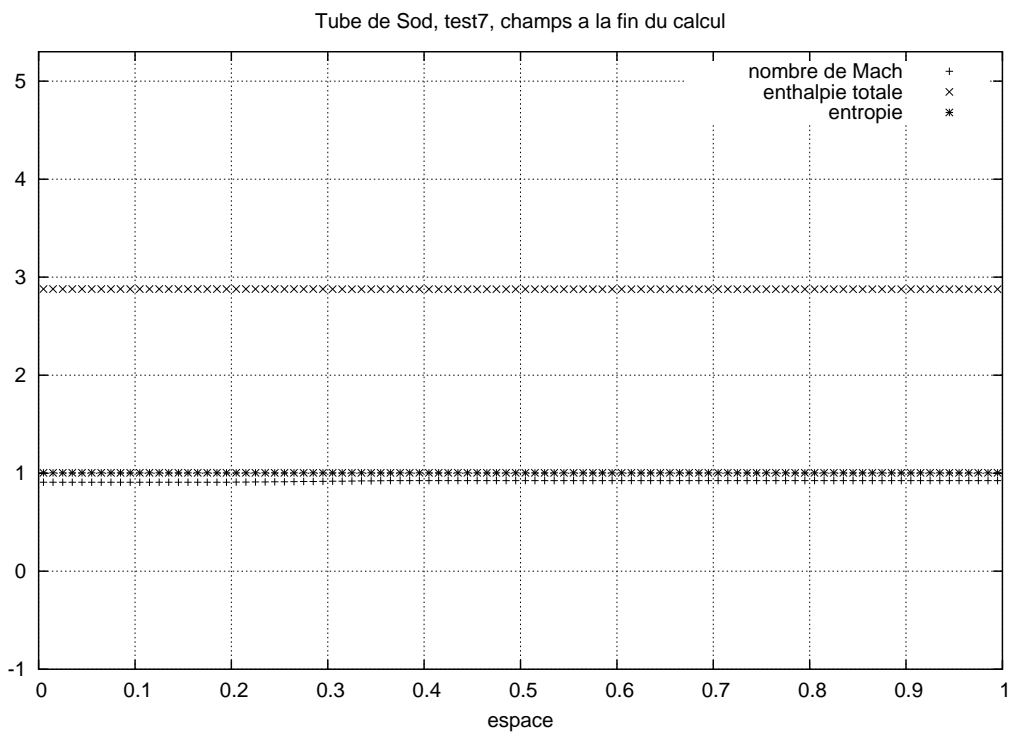


Figure 98 Tube de Sod, 100 mailles, schéma de Van Leer

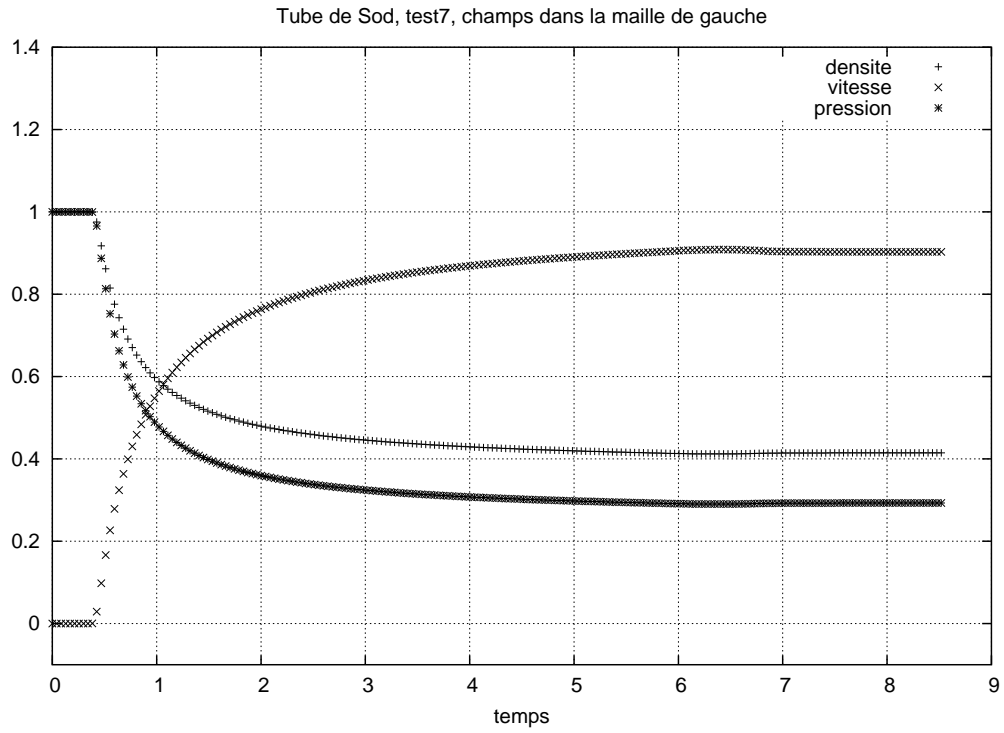


Figure 99 Tube de Sod, 100 mailles, schéma de Van Leer

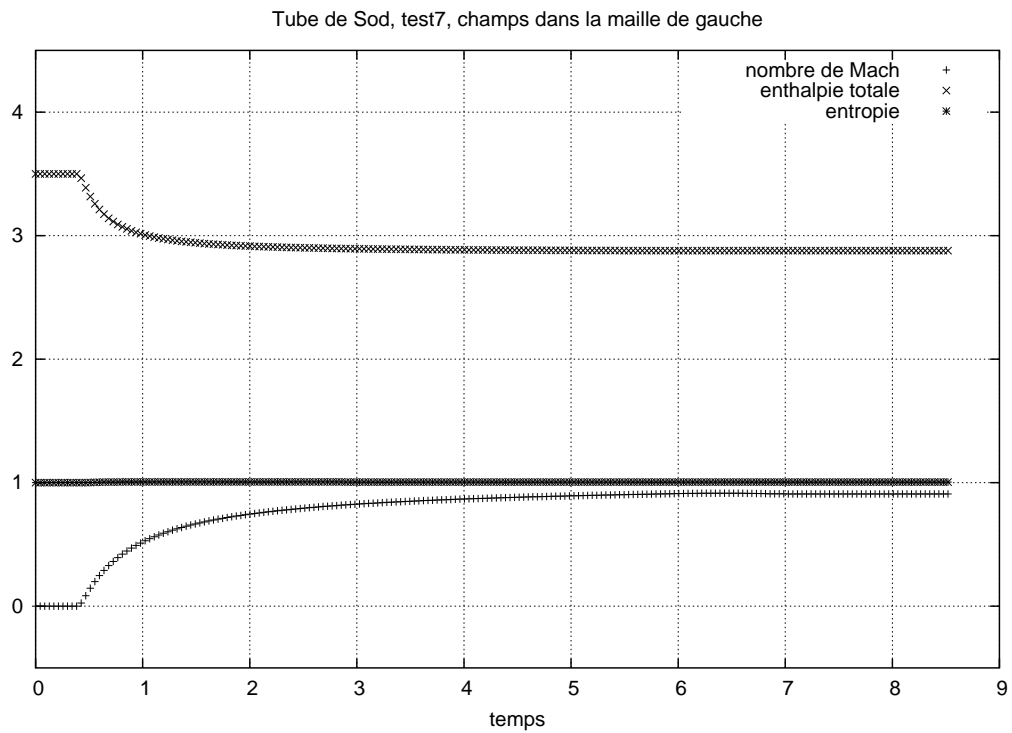


Figure 100 Tube de Sod, 100 mailles, schéma de Van Leer

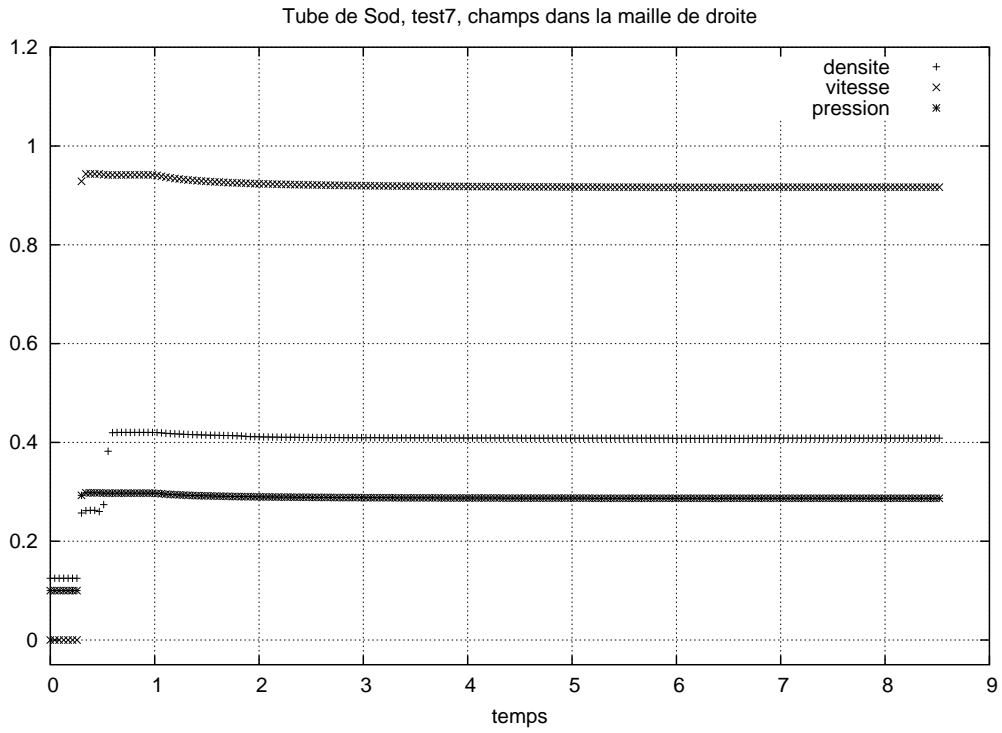


Figure 101 Tube de Sod, 100 mailles, schéma de Van Leer

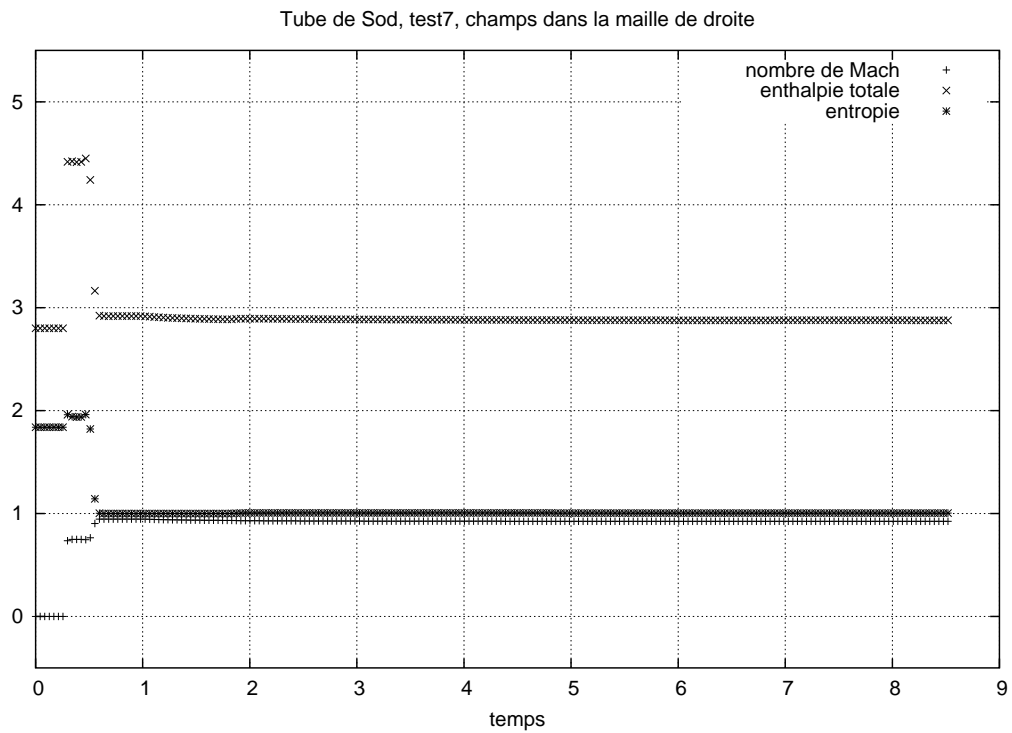


Figure 102 Tube de Sod, 100 mailles, schéma de Van Leer

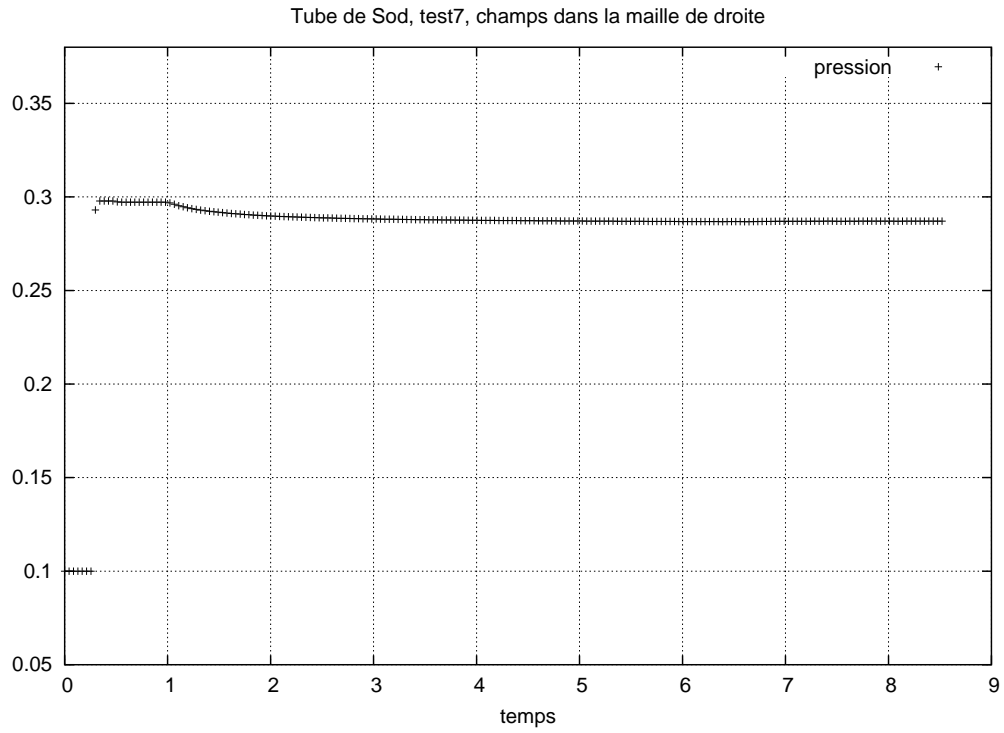


Figure 103 Tube de Sod, 100 mailles, schéma de Van Leer

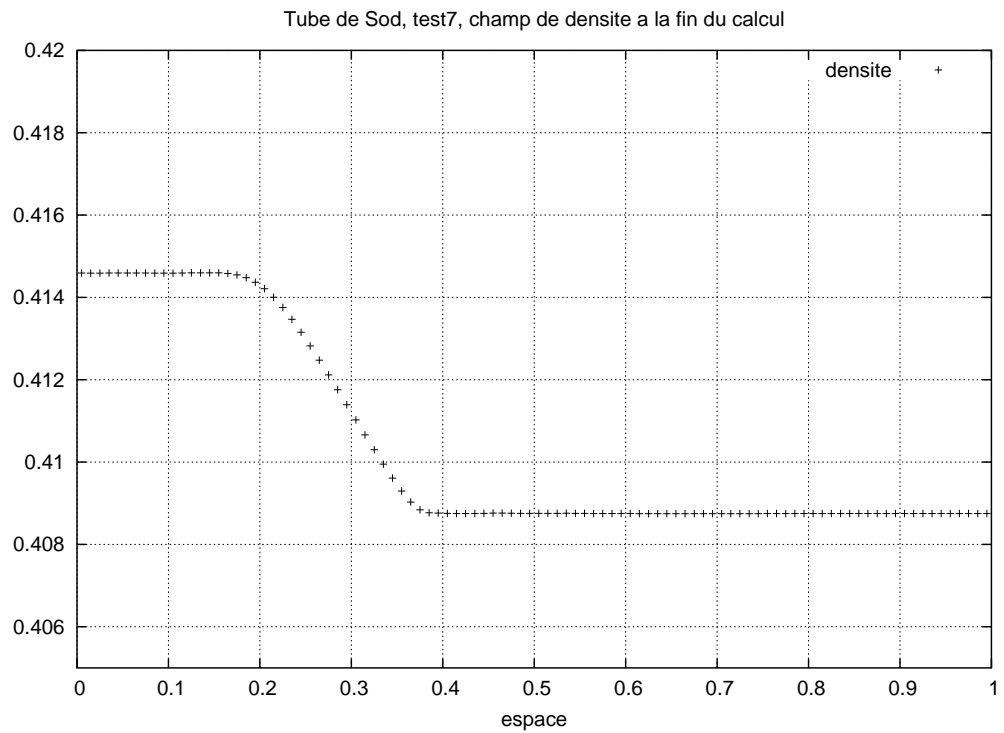


Figure 104 Tube de Sod, 100 mailles, schéma de Van Leer

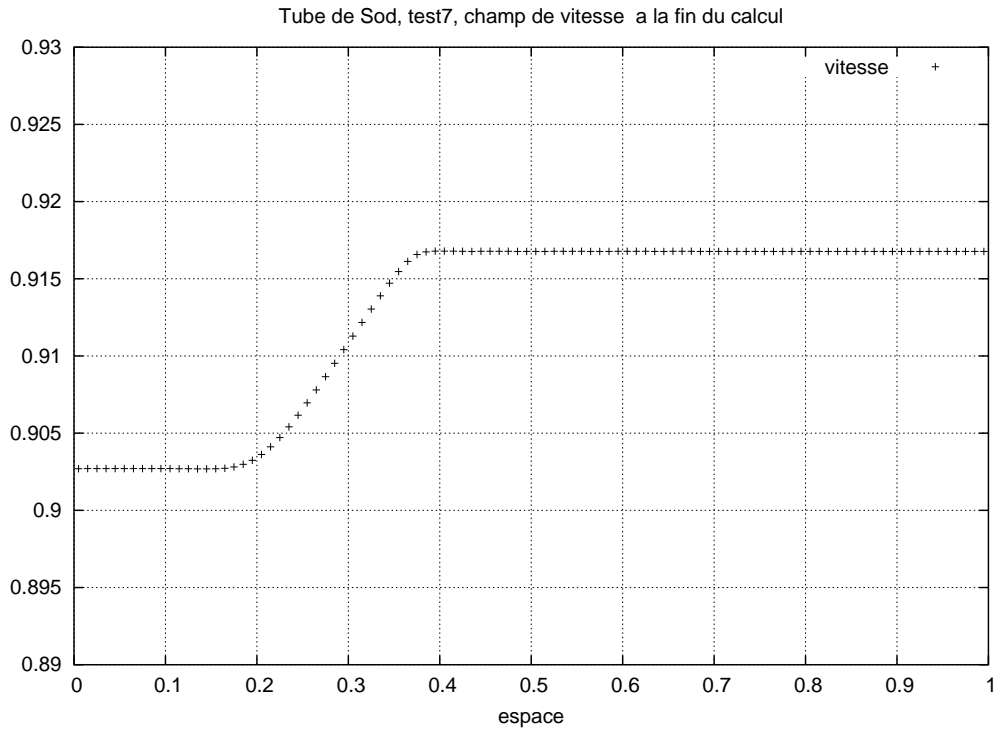


Figure 105 Tube de Sod, 100 mailles, schéma de Van Leer

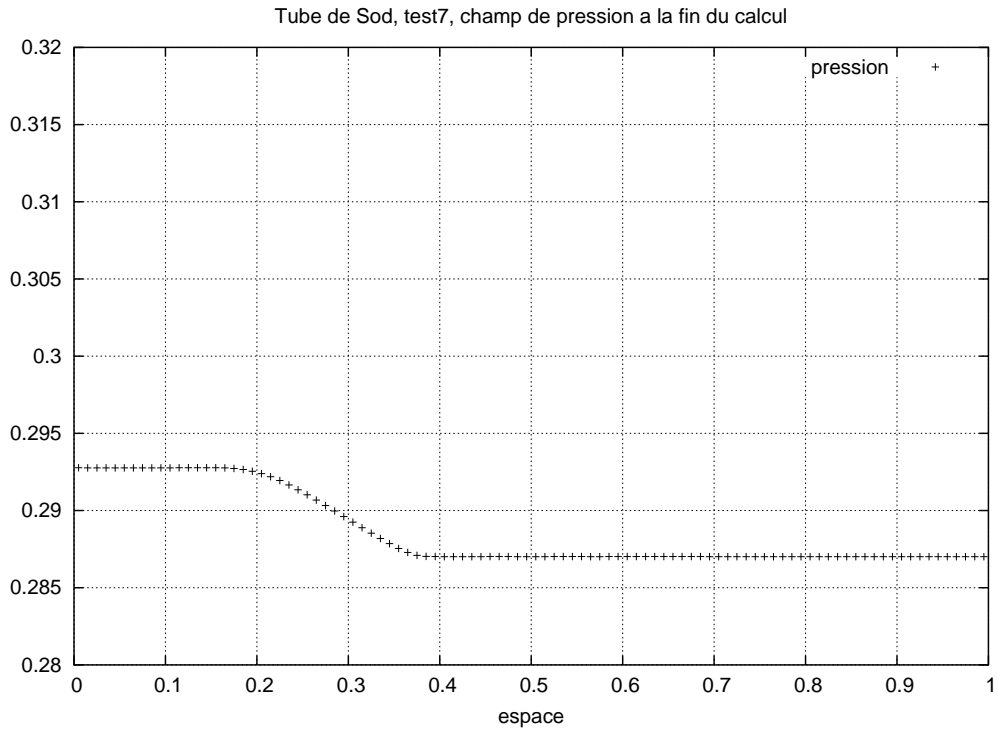


Figure 106 Tube de Sod, 100 mailles, schéma de Van Leer

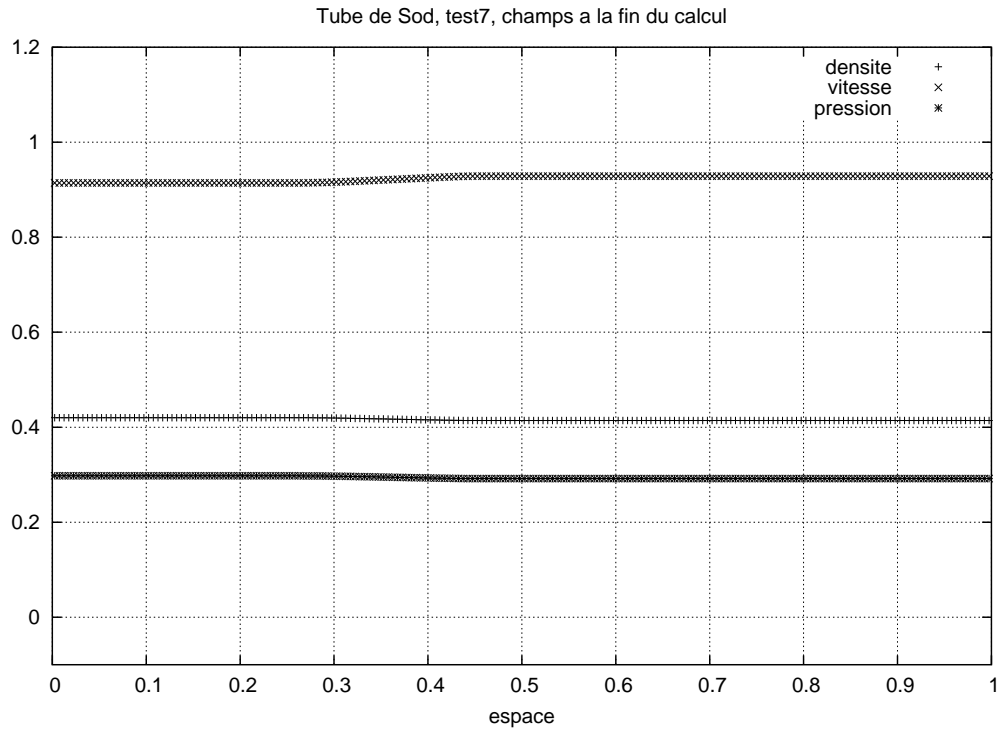


Figure 107 Tube de Sod, 200 mailles, schéma de Van Leer

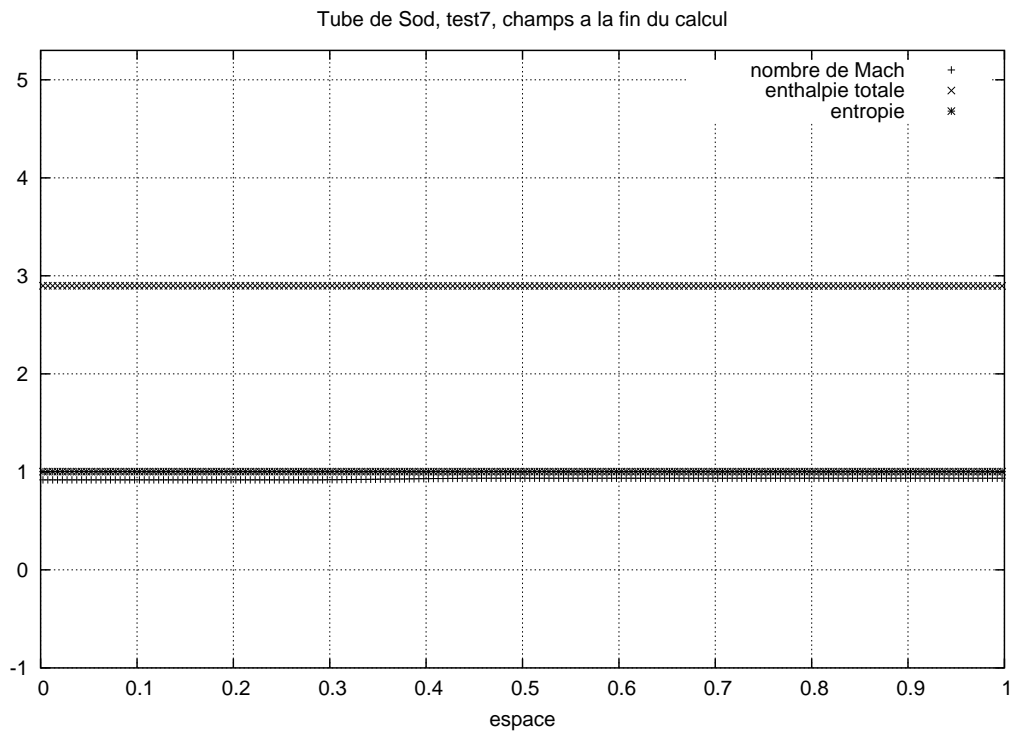


Figure 108 Tube de Sod, 200 mailles, schéma de Van Leer

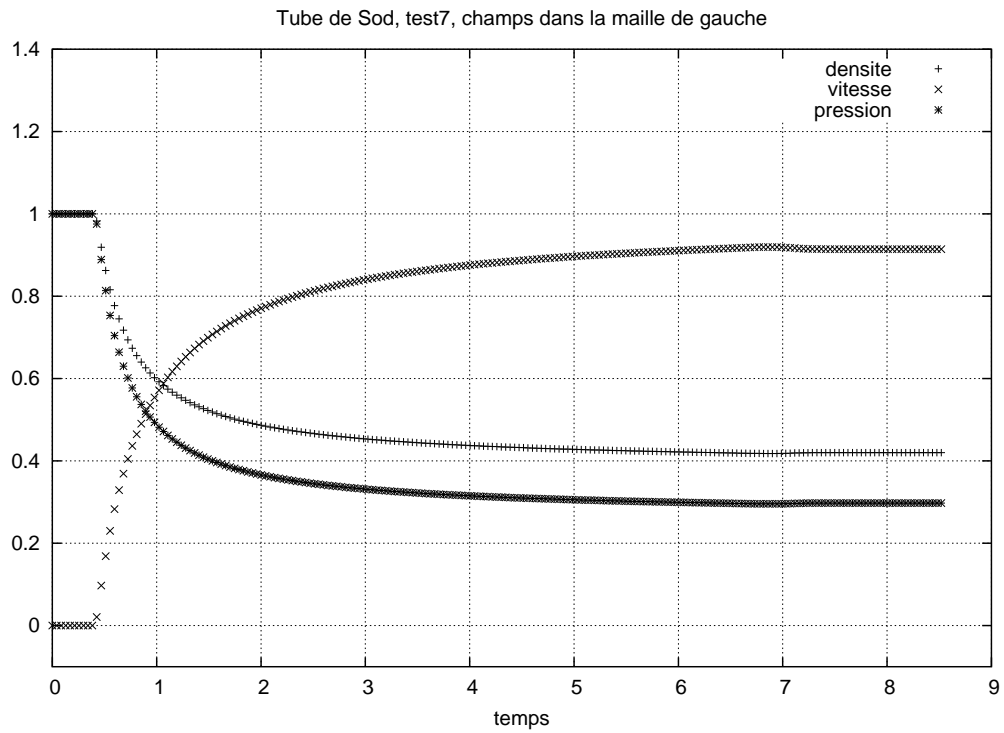


Figure 109 Tube de Sod, 200 mailles, schéma de Van Leer

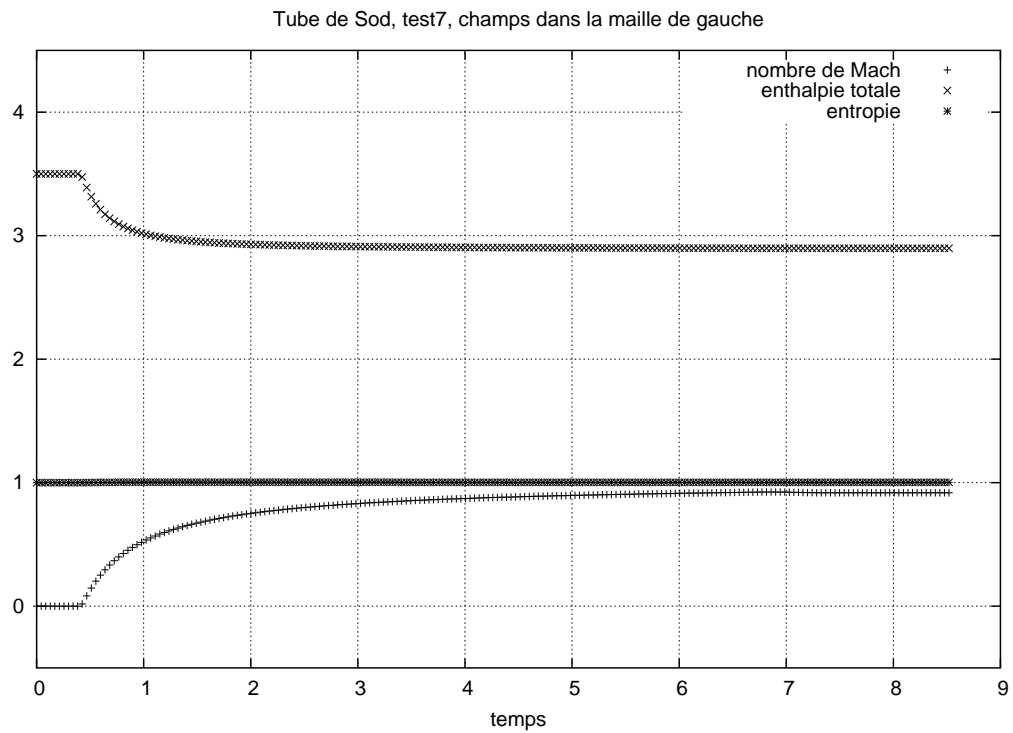


Figure 110 Tube de Sod, 200 mailles, schéma de Van Leer

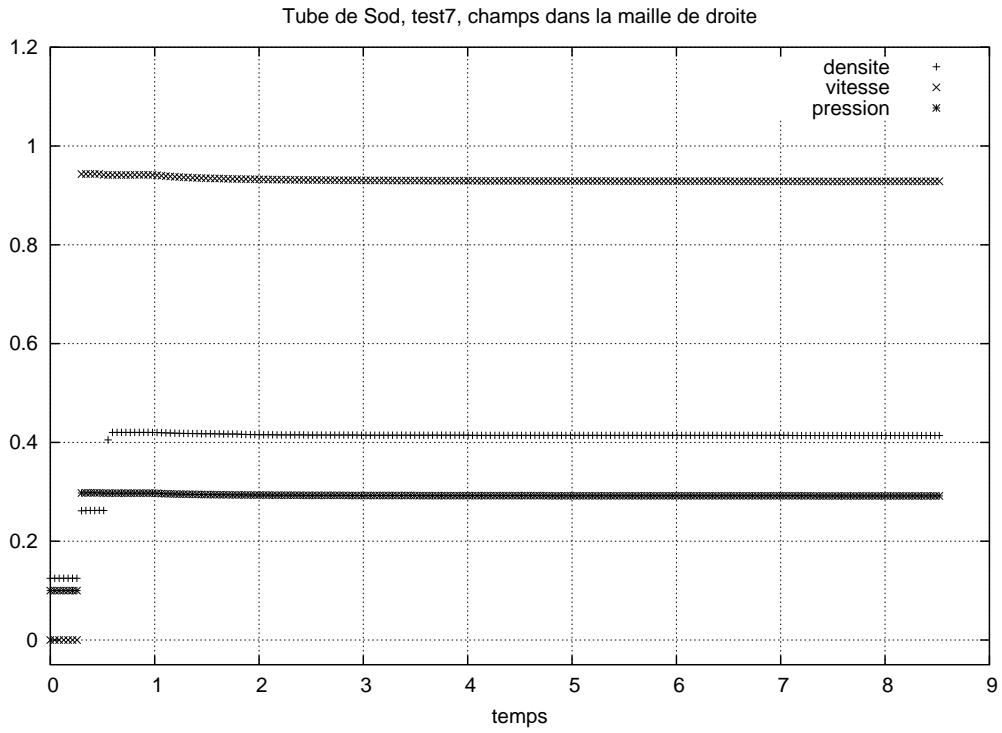


Figure 111 Tube de Sod, 200 mailles, schéma de Van Leer

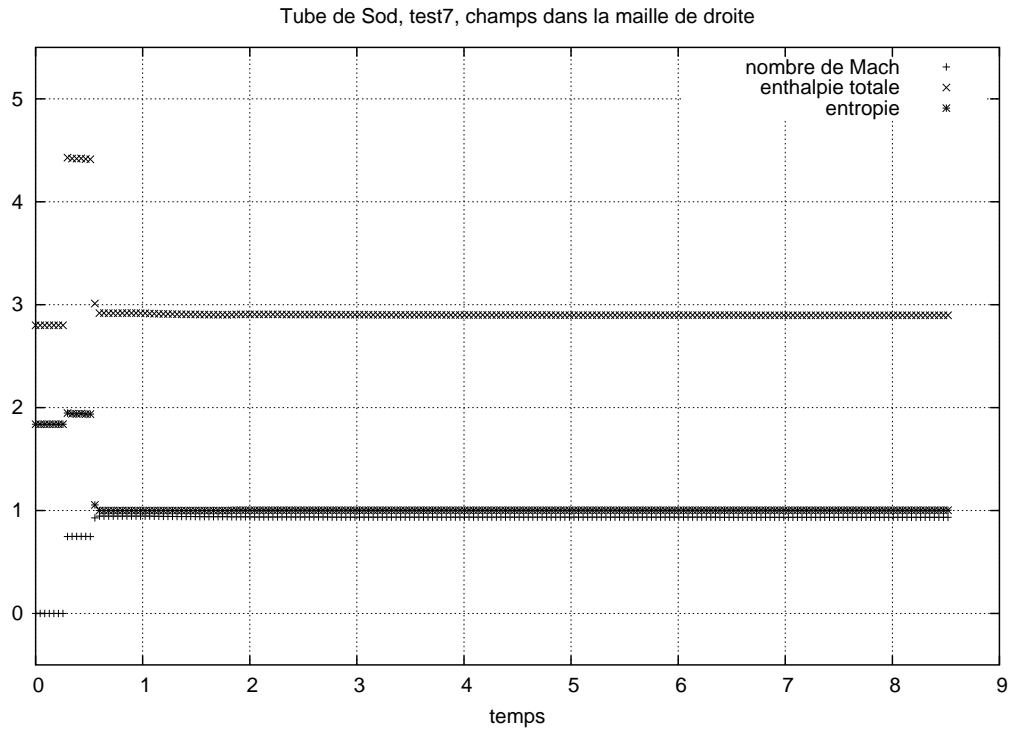


Figure 112 Tube de Sod, 200 mailles, schéma de Van Leer

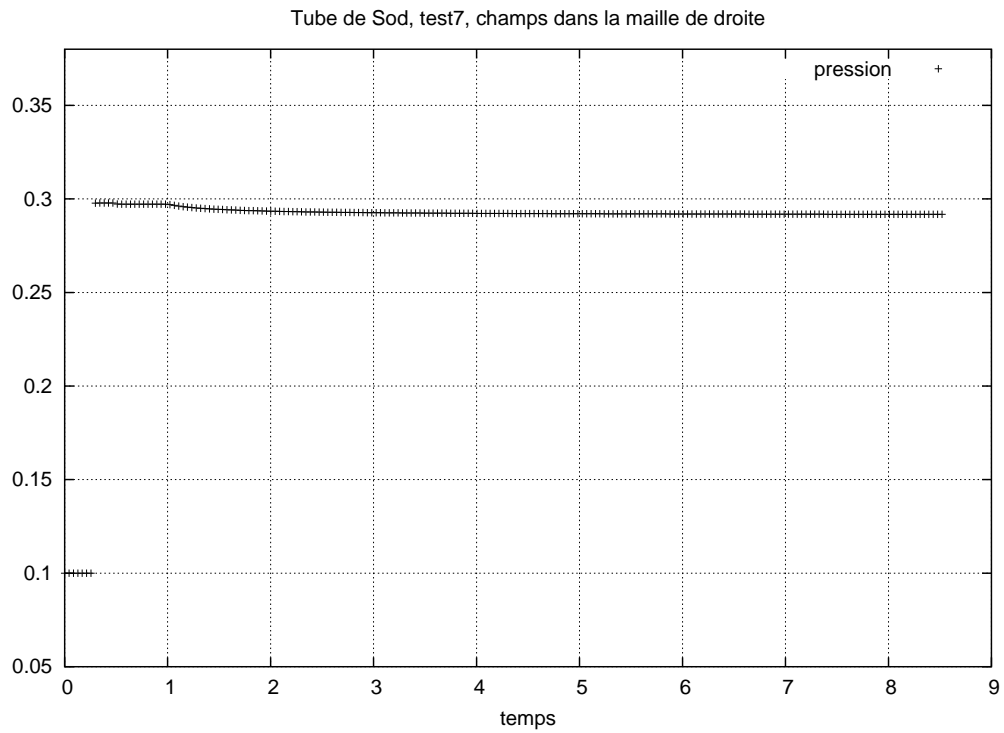


Figure 113 Tube de Sod, 200 mailles, schéma de Van Leer

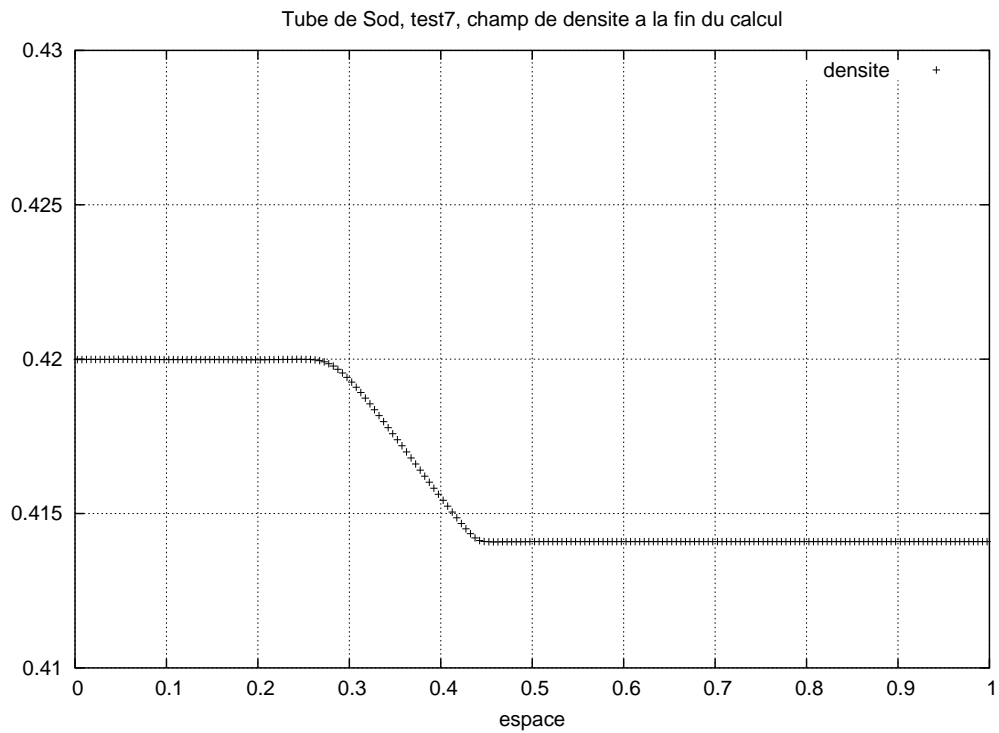


Figure 114 Tube de Sod, 200 mailles, schéma de Van Leer

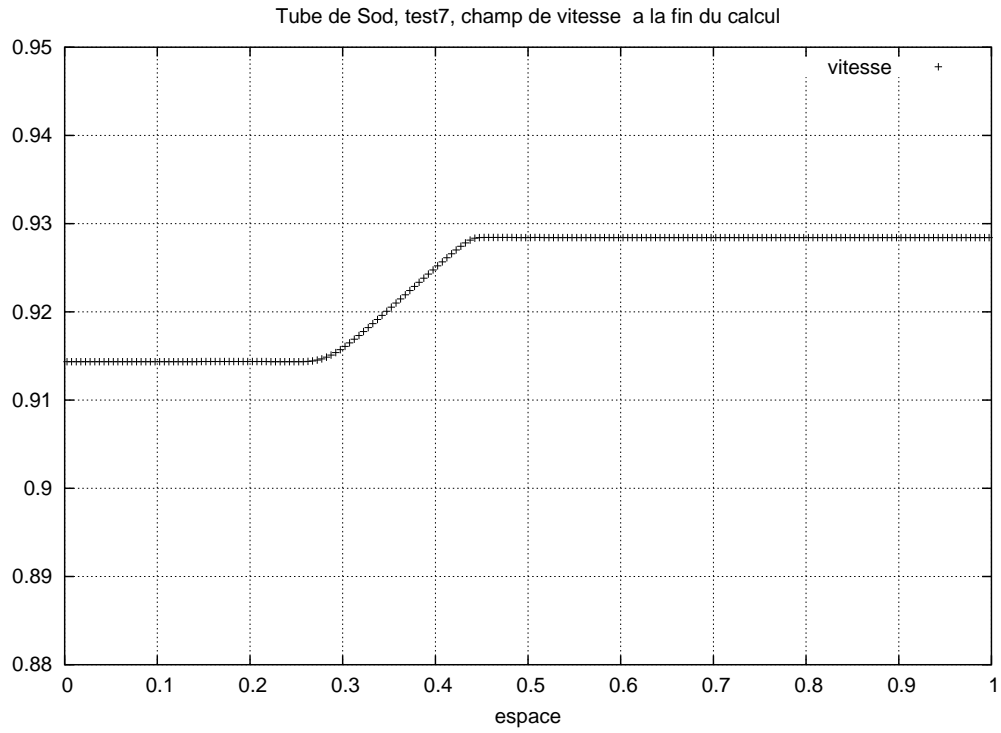


Figure 115 Tube de Sod, 200 mailles, schéma de Van Leer

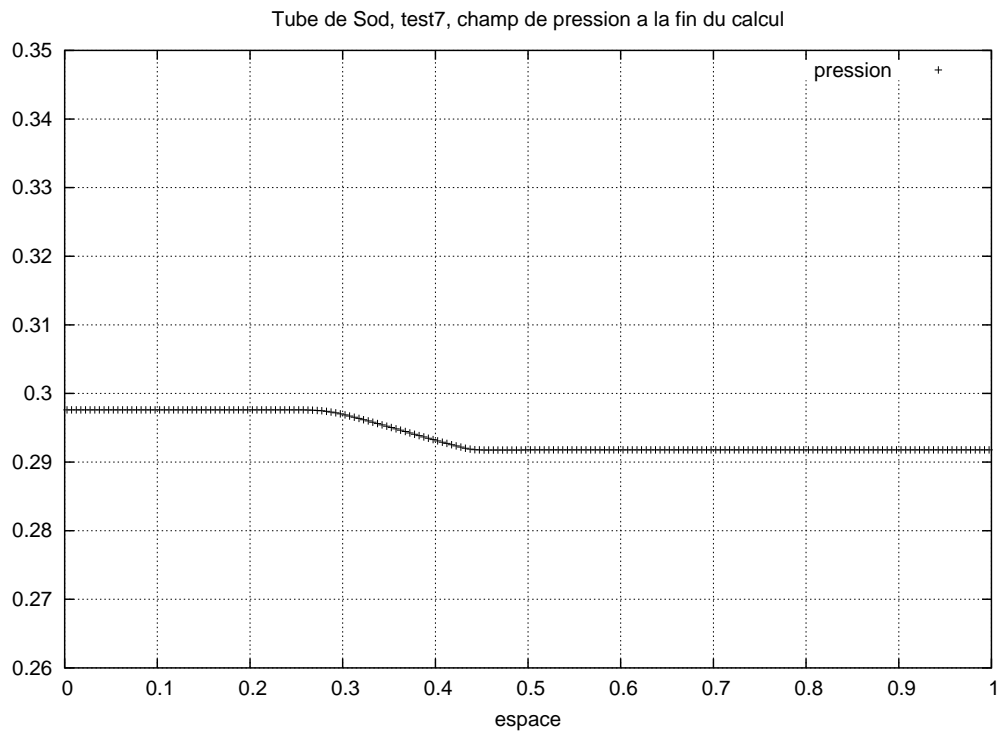


Figure 116 Tube de Sod, 200 mailles, schéma de Van Leer

test8 : on va jusqu'a $t=28,4$; on utilise le schéma de Van Leer

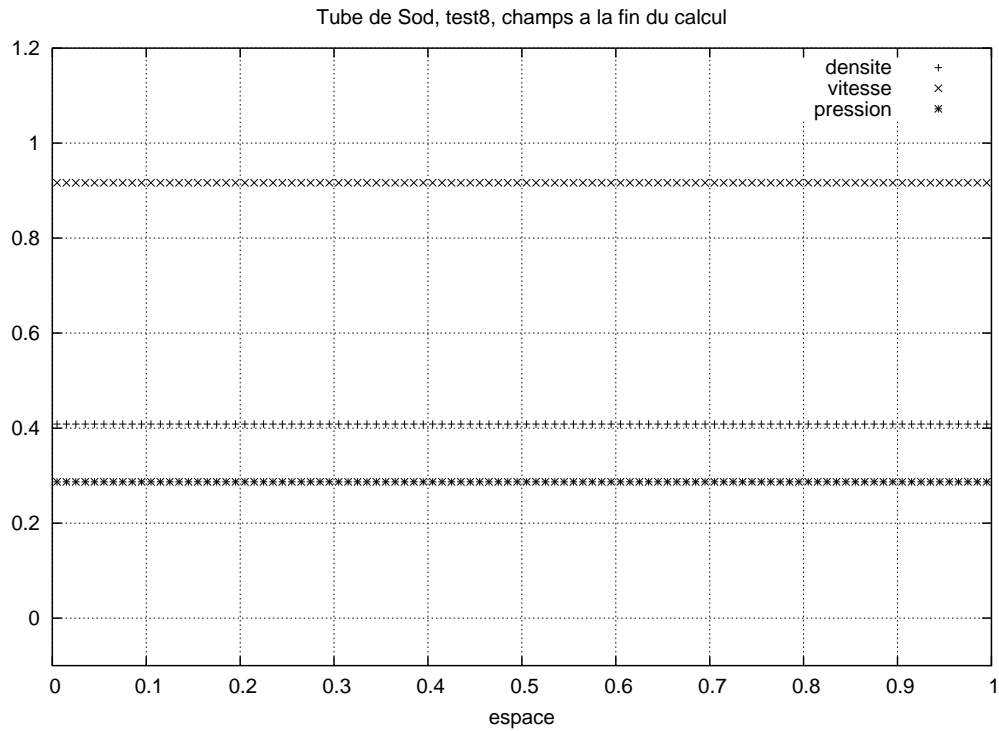


Figure 117 Tube de Sod, 100 mailles, schéma de Van Leer

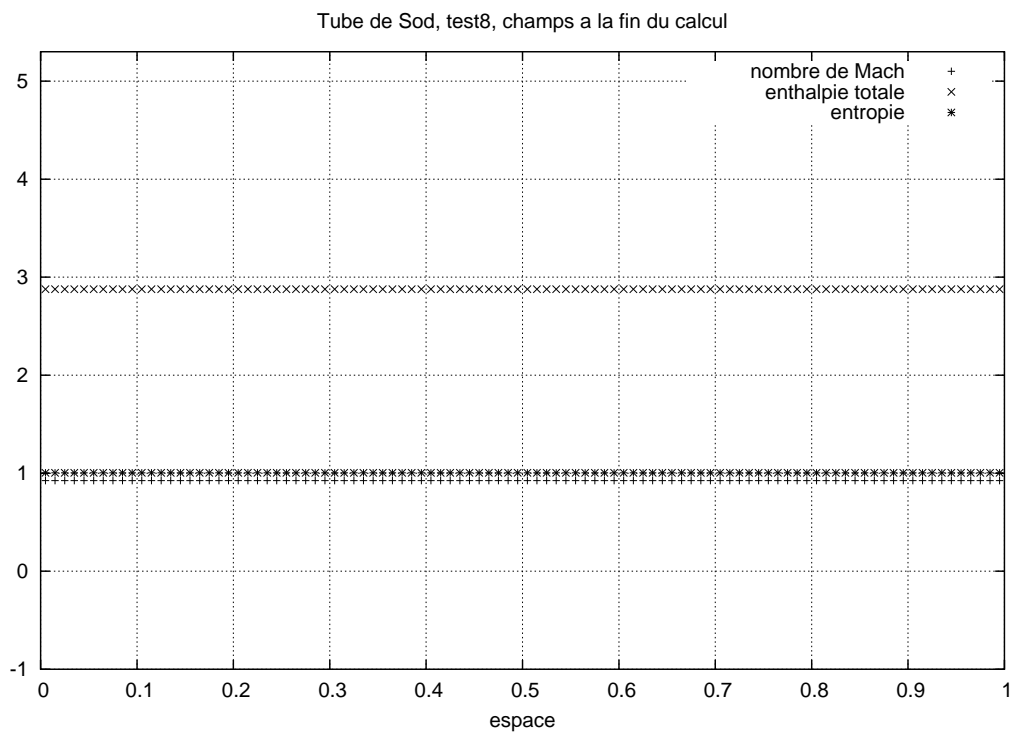


Figure 118 Tube de Sod, 100 mailles, schéma de Van Leer

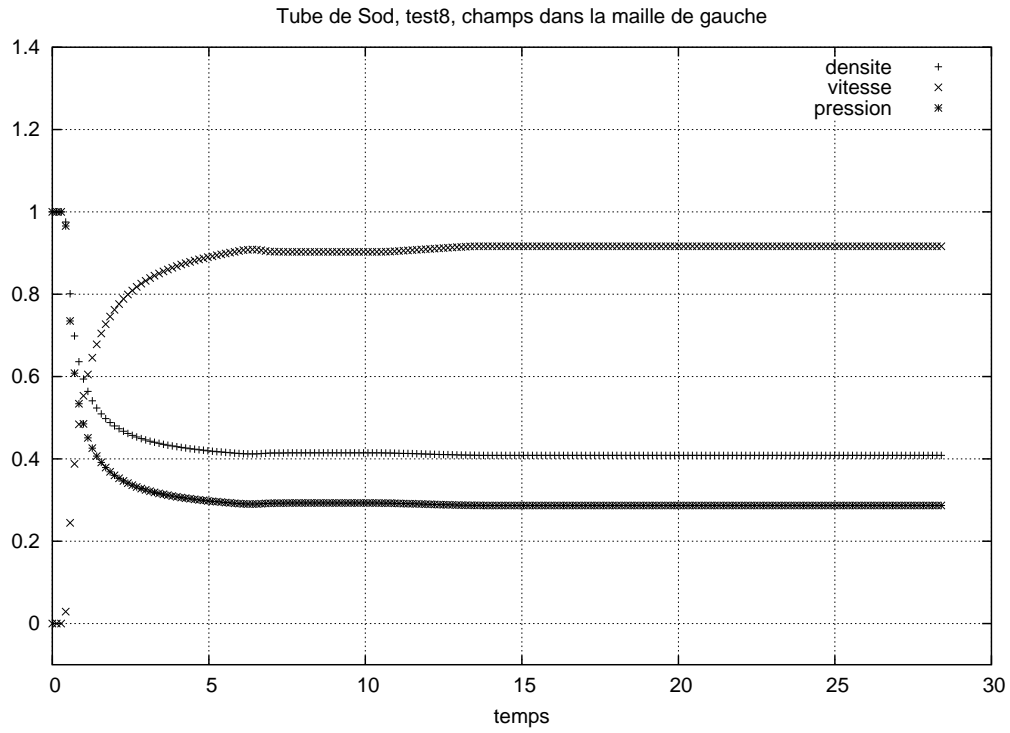


Figure 119 Tube de Sod, 100 mailles, schéma de Van Leer

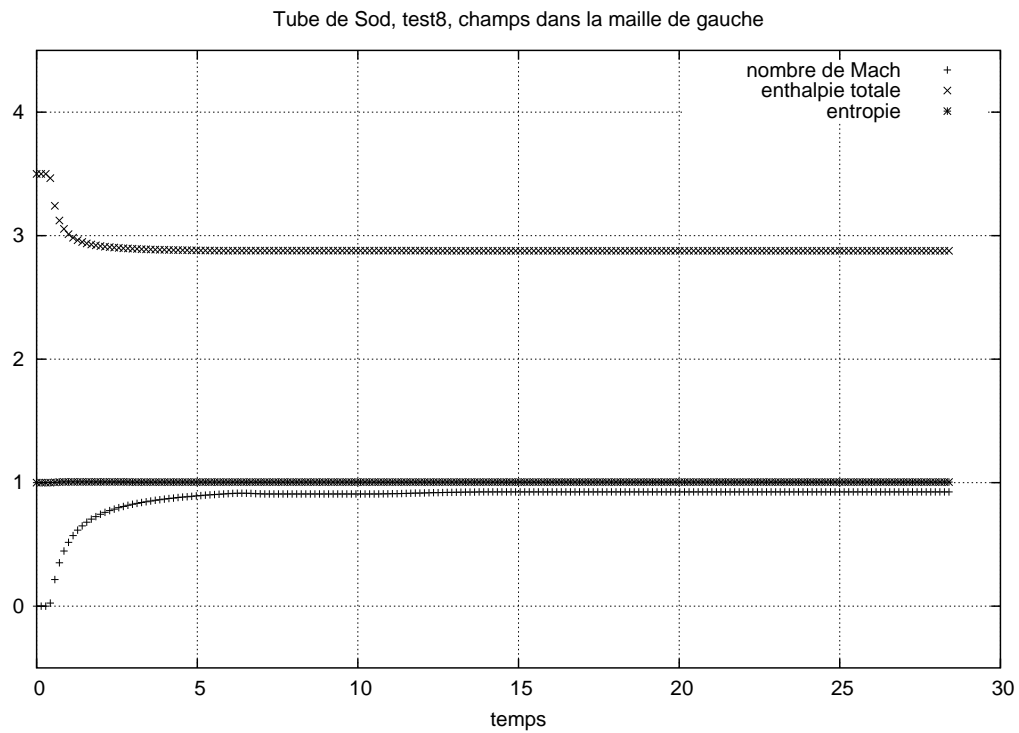


Figure 120 Tube de Sod, 100 mailles, schéma de Van Leer

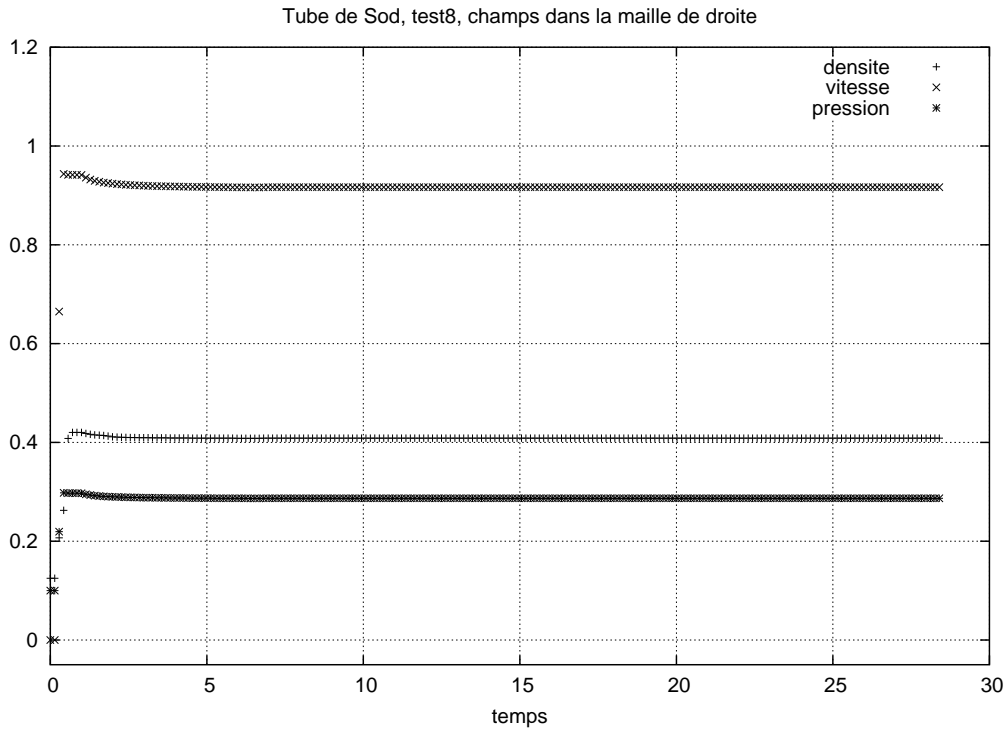


Figure 121 Tube de Sod, 100 mailles, schéma de Van Leer

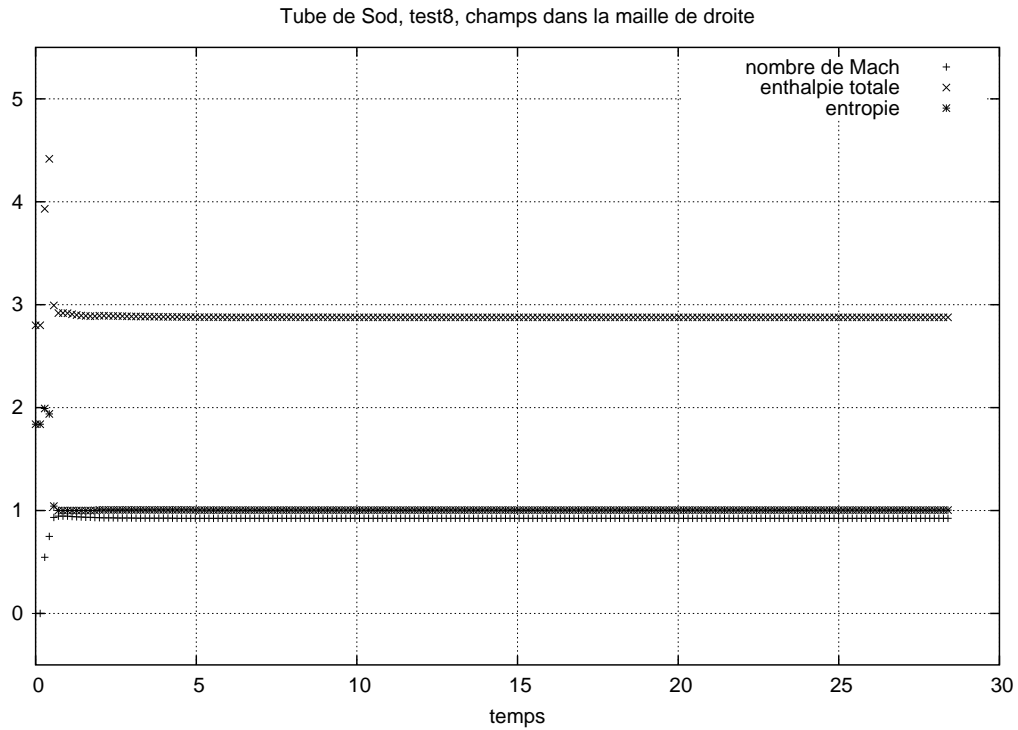


Figure 122 Tube de Sod, 100 mailles, schéma de Van Leer

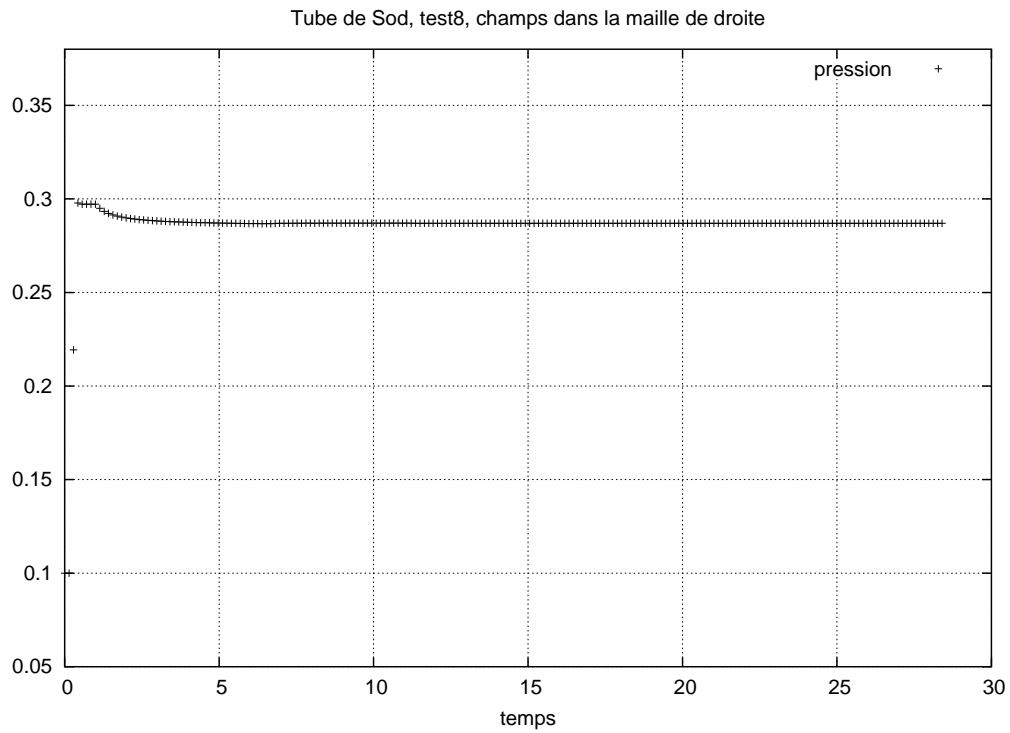


Figure 123 Tube de Sod, 100 mailles, schéma de Van Leer

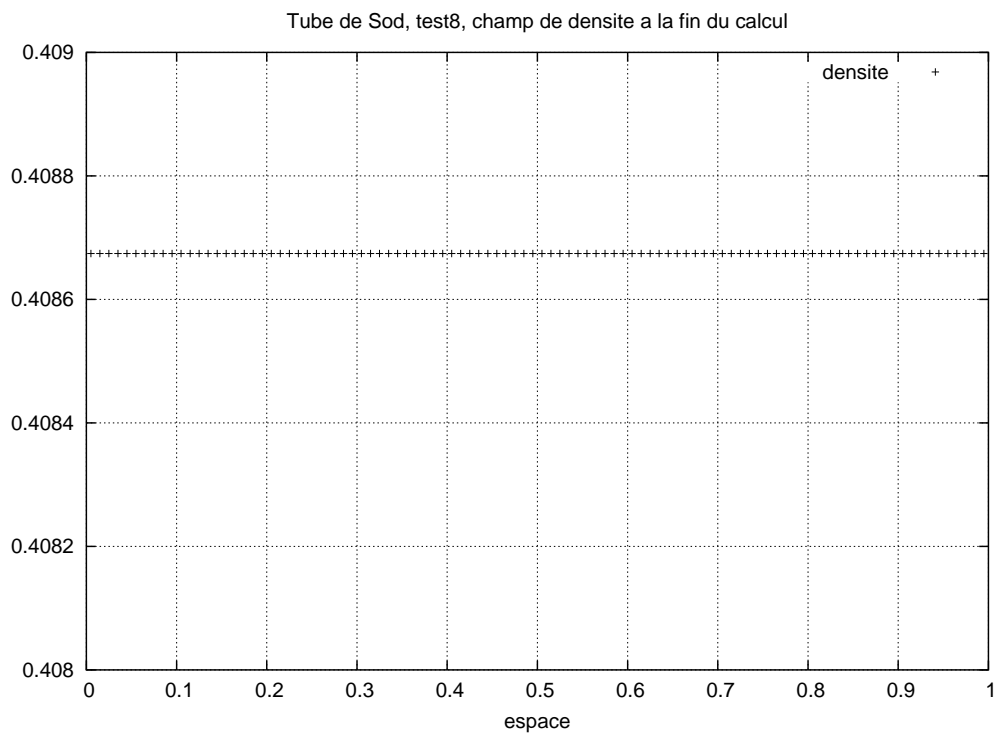


Figure 124 Tube de Sod, 100 mailles, schéma de Van Leer

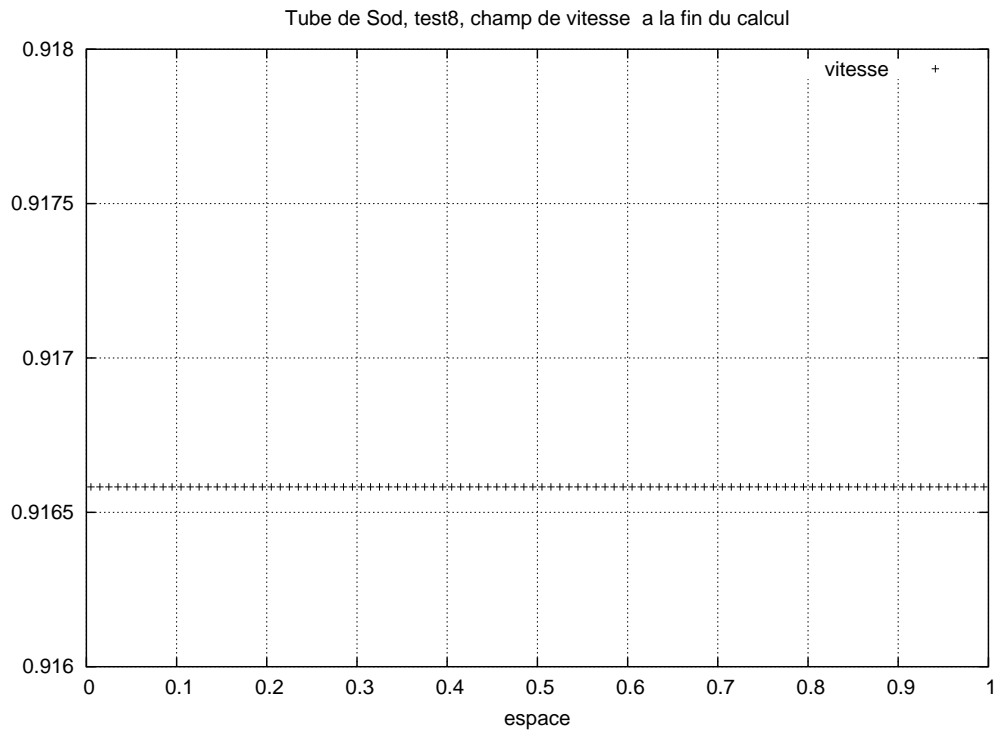


Figure 125 Tube de Sod, 100 mailles, schéma de Van Leer

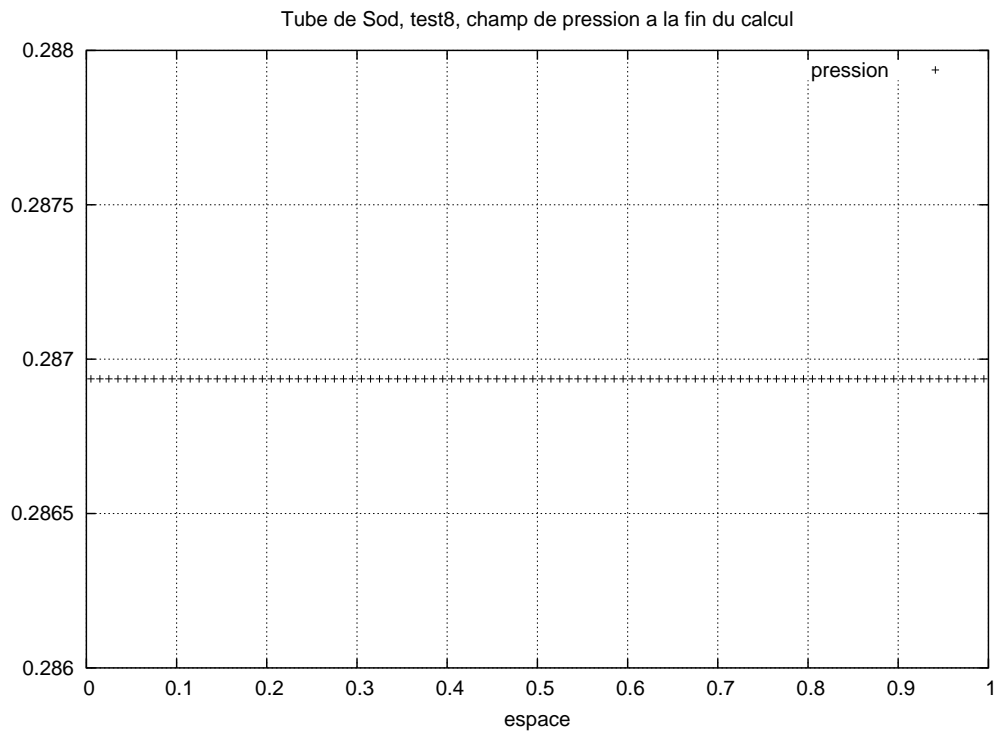


Figure 126 Tube de Sod, 100 mailles, schéma de Van Leer

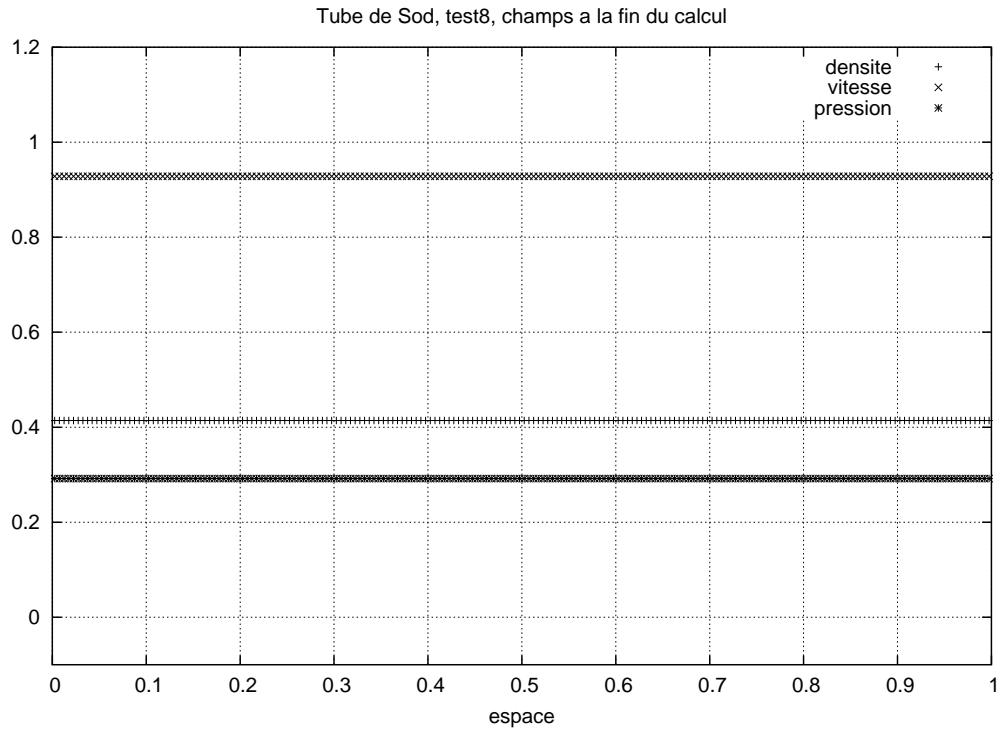


Figure 127 Tube de Sod, 200 mailles, schéma de Van Leer

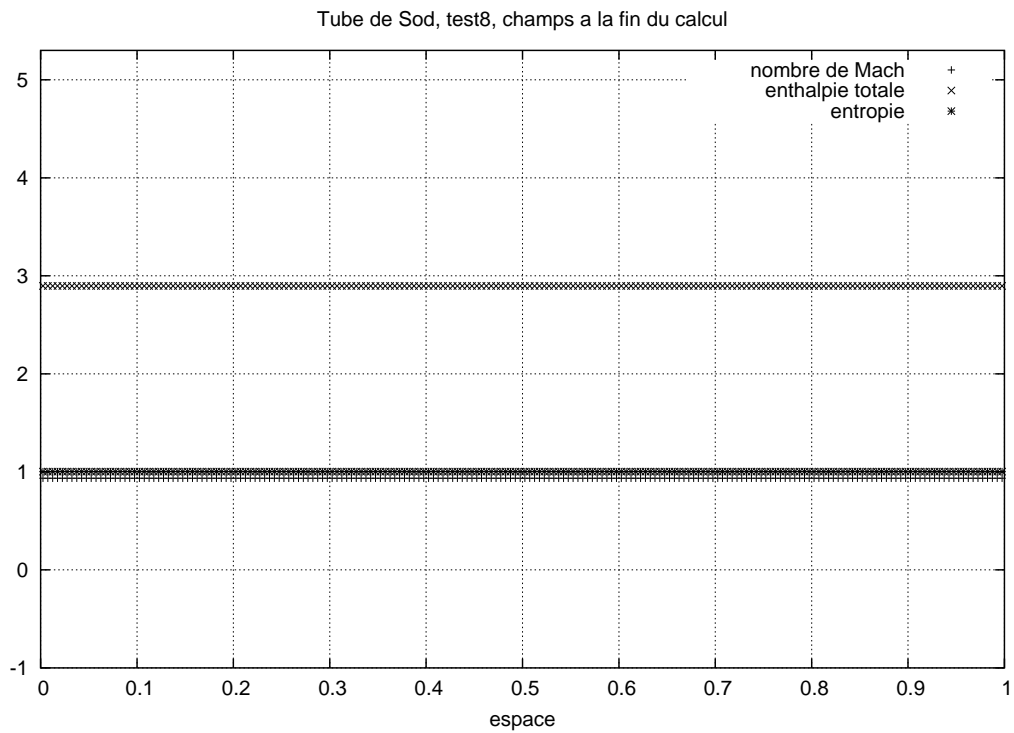


Figure 128 Tube de Sod, 200 mailles, schéma de Van Leer

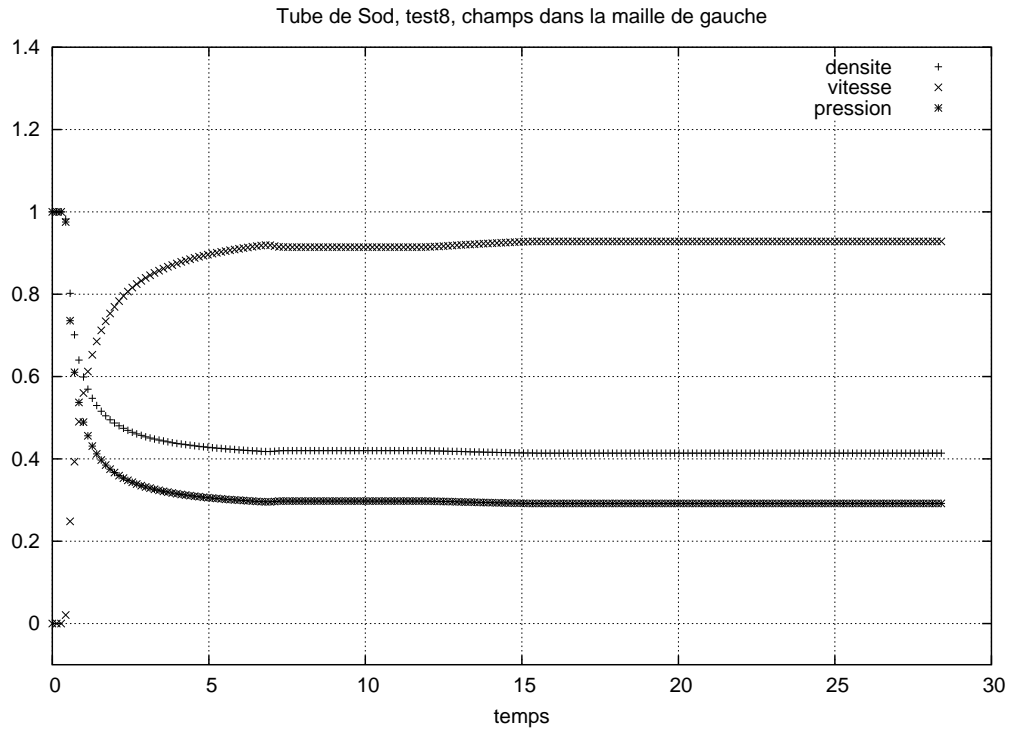


Figure 129 Tube de Sod, 200 mailles, schéma de Van Leer

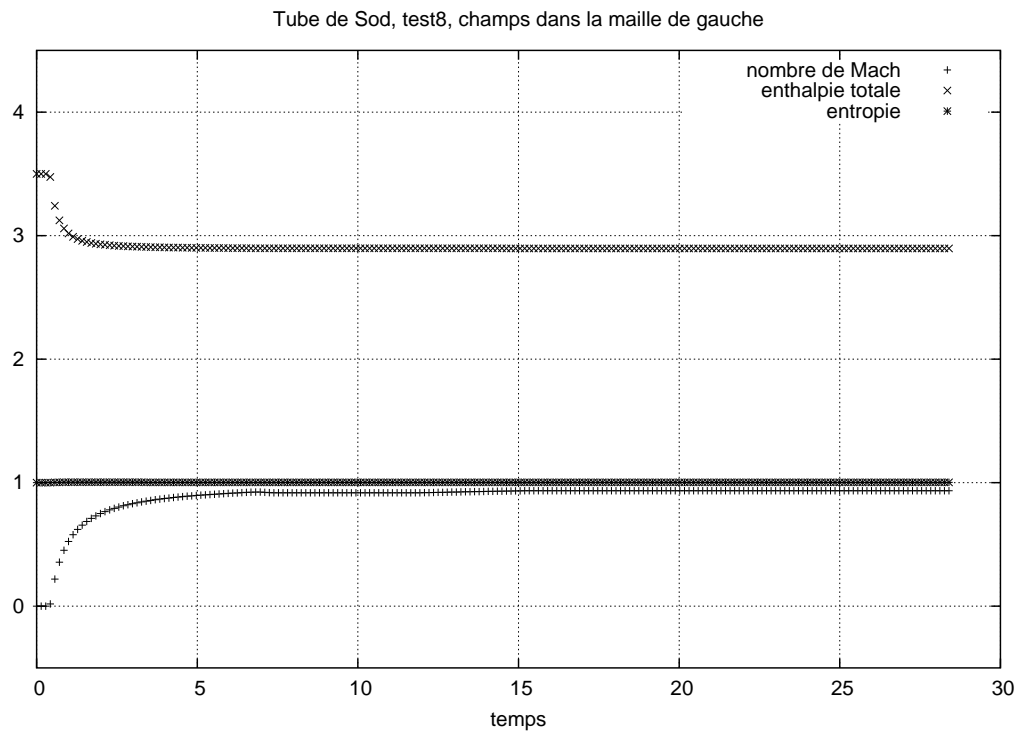


Figure 130 Tube de Sod, 200 mailles, schéma de Van Leer

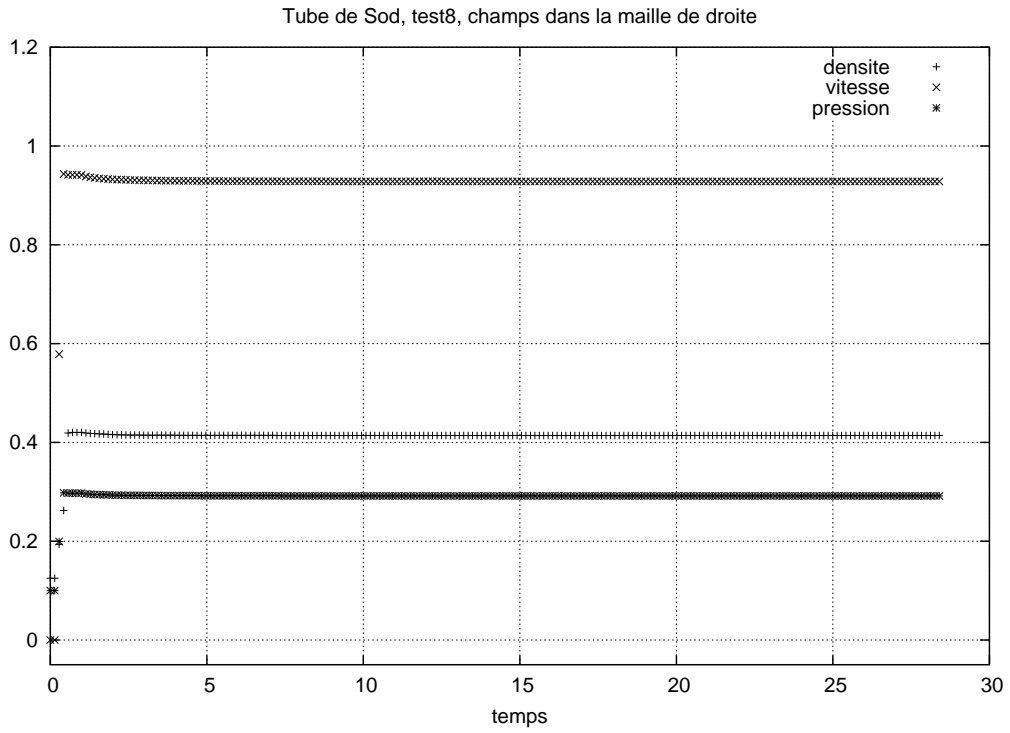


Figure 131 Tube de Sod, 200 mailles, schéma de Van Leer

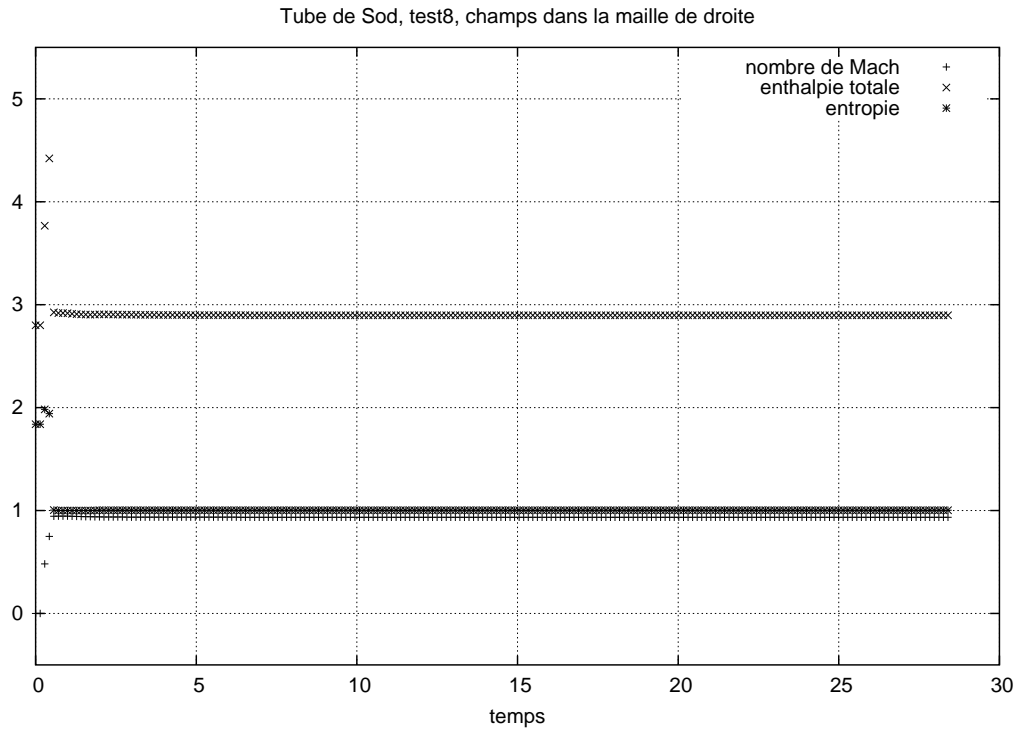


Figure 132 Tube de Sod, 200 mailles, schéma de Van Leer

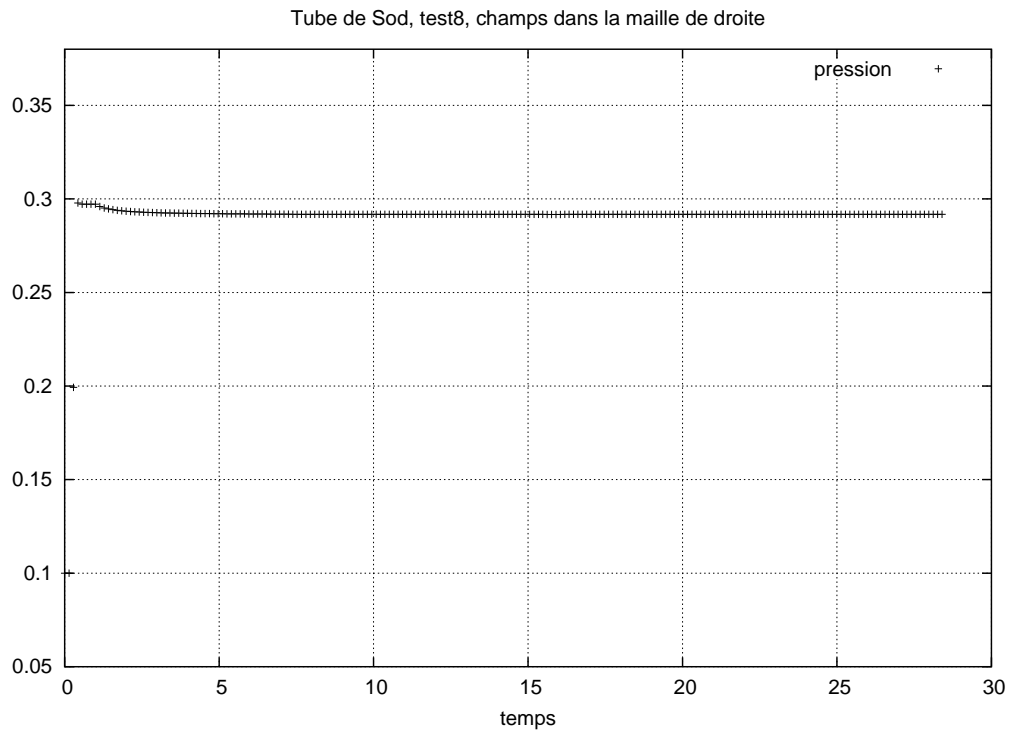


Figure 133 Tube de Sod, 200 mailles, schéma de Van Leer

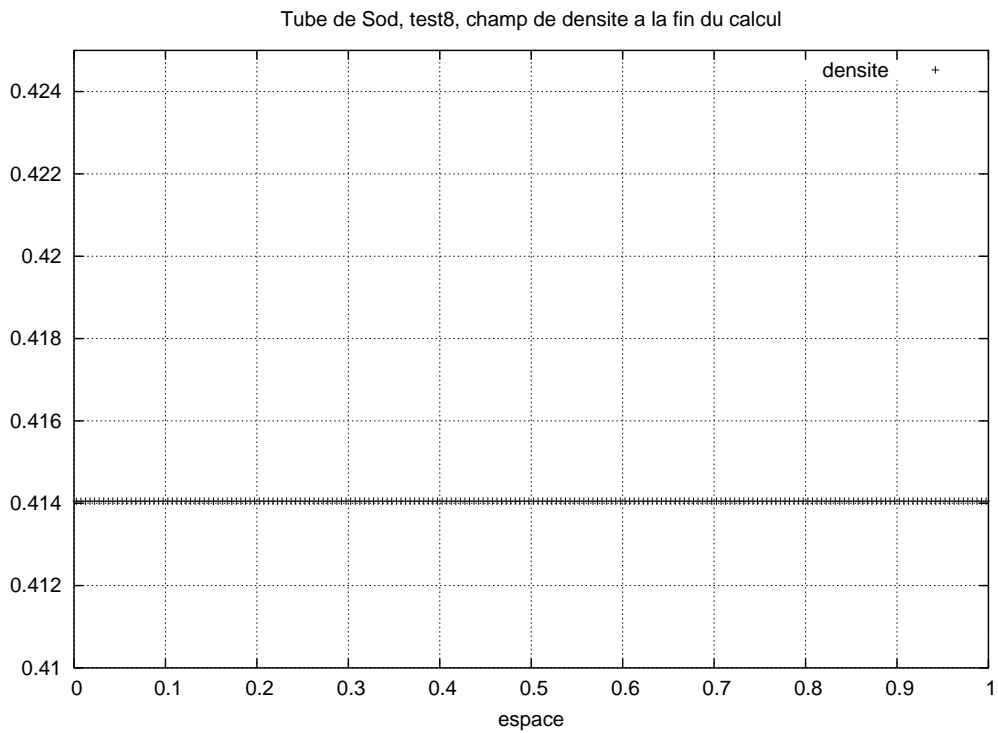


Figure 134 Tube de Sod, 200 mailles, schéma de Van Leer

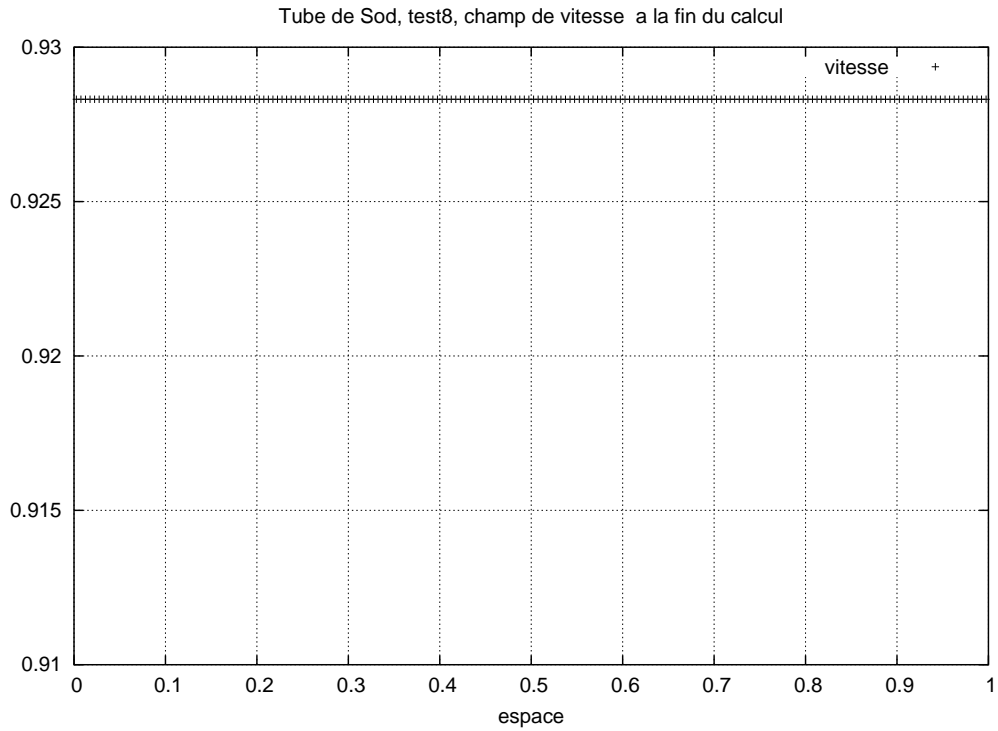


Figure 135 Tube de Sod, 200 mailles, schéma de Van Leer

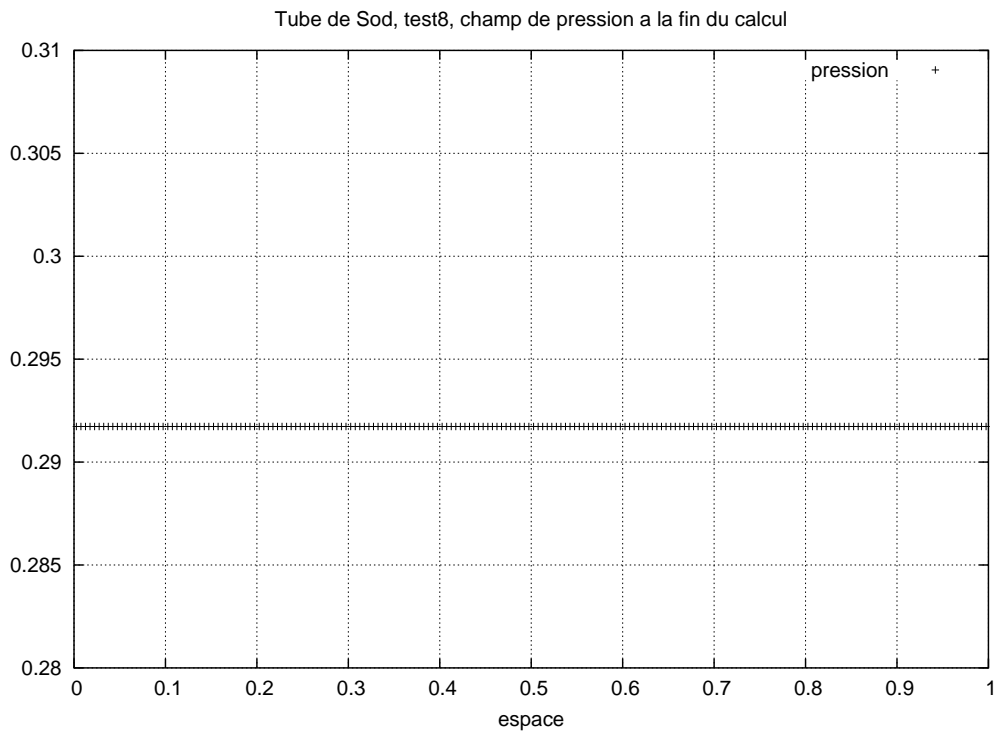


Figure 136 Tube de Sod, 200 mailles, schéma de Van Leer.

fd, 04 juin 2003.