$$F_2[\{1, i0\_, j0\_\}, \{1, i1\_, j1\_\}] = \frac{(T_1 - 1)\, T_2\, (T_3 - 1)\, g_{1,j1,i0}\, g_{2,i1,i0}\, g_{3,j0,i1}}{T_2 - 1} - \frac{(T_1 - 1)\, (T_3 - 1)\, g_{1,j1,i0}\, g_{2,i1,j0}\, g_{3,j0,i1}}{T_2 - 1} -$$
$$\frac{(T_1 - 1)\, T_2\, (T_3 - 1)\, g_{1,j1,i0}\, g_{2,j1,i0}\, g_{3,j0,i1}}{T_2 - 1} + \frac{(T_1 - 1)\, (T_3 - 1)\, g_{1,j1,i0}\, g_{2,j1,j0}\, g_{3,j0,i1}}{T_2 - 1};$$