$f = f_{(0,1,0,2)}$

$$\begin{aligned} f_{n+1} &= x_{n+1}^2 2g_n + x_{n+1} 2h_n + f_n \\ f_{n+1} &= (x_{n+1}+1)^2 2g_n + (x_{n+1}+1)p_n + 2f_n \\ f_{n+1} &= (x_{n+1}+2)^2 2g_n + (x_{n+1}+2)2f_n + g_n \end{aligned}$$

$g = f_{(1,0,2,0)}$

$$\begin{aligned} g_{n+1} &= x_{n+1}^2 f_n + x_{n+1} 2p_n + g_n \\ g_{n+1} &= (x_{n+1}+1)^2 f_n + (x_{n+1}+1)2h_n + 2g_n \\ g_{n+1} &= (x_{n+1}+2)^2 f_n + (x_{n+1}+2)2g_n + 2f_n \end{aligned}$$

$h = f_{(1,1,2,2)}$

$$\begin{aligned} h_{n+1} &= x_{n+1}^2 2p_n + x_{n+1} g_n + h_n \\ h_{n+1} &= (x_{n+1}+1)^2 2p_n + (x_{n+1}+1)f_n + 2h_n \\ h_{n+1} &= (x_{n+1}+2)^2 2p_n + (x_{n+1}+2)2h_n + p_n \end{aligned}$$

$p = f_{(1,2,2,1)}$

$$\begin{aligned} p_{n+1} &= x_{n+1}^2 h_n + x_{n+1} 2f_n + p_n \\ p_{n+1} &= (x_{n+1}+1)^2 h_n + (x_{n+1}+1)g_n + 2p_n \\ p_{n+1} &= (x_{n+1}+2)^2 h_n + (x_{n+1}+2)2p_n + 2h_n \end{aligned}$$

	0	1	2
f_1	2	2	2
g_1	2	2	1
h_1	3	2	3
p_1	2	3	3