Optimal Scheme For 3-Node Naturale (Nain-III) (a1=a2 h b1=b2)

$$(a) = (1 - a) = a = b$$

$$b = a, \quad 741-b-a, \quad M = M = M = k+a$$

n f [2, 3+1) 3 = [n]

D.S. Lows-holds NOPE but does this case ever occur?

D-S-Cons. not hold

3 L T-Q+1

az (1-9+1) 2 az + 1

asti La. T-9+1 casta True For Bowl

Integer:

dolphris cost (feb)

 $\sqrt{\left[n-\frac{1}{a}\right]-n-1} \quad \text{if} \quad n=3$

(2) [n-1] L n-1 if & 2n < 3+5

(n-177n-1) if z+1 c n < z+1 h

 $= \begin{bmatrix} T-a+1 & 1 \\ b & a \end{bmatrix} = \begin{bmatrix} T-a+1 & 1 \\ b & a \end{bmatrix}$

b 1 7-a+1 3 b 1 7-b-a+1

 $\begin{bmatrix} -1 - k \end{bmatrix} = -\begin{bmatrix} -1 - k \end{bmatrix}$

 $3\left[\frac{t}{a}\right]+\left[\frac{-1-t}{a}\right]=\frac{1-\left(\frac{1-1}{a}\right)+\frac{1}{a}}{a}$

 $\begin{bmatrix} \frac{1}{2} \end{bmatrix} = \begin{bmatrix} \frac{1}{2} \end{bmatrix}$

 $M = \alpha \cdot \left(\frac{T - \alpha + 1}{1} \right)$

 $R = \frac{\sqrt{(T-q-b+1)}}{\sqrt{1-q-b+1}}$

 $M = A \cdot (T - A + 1)$

Dispersion-span Constraint; $T-b=(M-1)-(b-a)\begin{bmatrix} M-1\\ -a\end{bmatrix} \leq 0$

$$= \frac{1}{16} + \frac{1}{16$$

Delay Constraint:

$$2b + (b-a) \cdot ([\frac{t}{a}] + [\frac{b-1-t}{a}]) + (\frac{b-1}{a}) + (\frac{b-1}{a}) + (\frac{b-1}{a}) + (\frac{t}{a}] + (\frac{t-b-a+1}{a}) + (\frac$$

$$= 2b + (b-a) \cdot ([a] + [-1-t] + [-1-t] + (T-b-a+1) + a \cdot (T-b-a+1) - 1$$

$$= 2b + (b-a) \cdot \left(\frac{1}{b} - a+1 \right) + \frac{a \cdot (7-b-a+1)}{b} - 1$$

$$= \frac{2}{b} + \frac{7}{2b} - \frac{4}{4} = \frac{1}{6} - \frac{1}{4} + \frac{1}{4} - \frac{1}{5} - \frac{1}{4} + \frac{1}{4} - \frac{1}{5} - \frac{1}{4} + \frac{1}{4} - \frac$$

$$= T - a + a \cdot b$$

$$= T$$

on parameters

Constraint :
$$a_1 = a_2(=a)$$
 $k = a \cdot \frac{T-6-0.1}{6}$

•
$$b_1 = b_2(b)$$

• $b_1 = b_2(b)$
• $b_1 = b_2(b)$
• $b_1 = b_2(b)$

$$N_1 = N_2 = T - b + 1$$

$$R_1 = R_2 = Ropt = \frac{T - 6 - \alpha + 1}{T - \alpha + 1} = Ropt_{s-Node}$$

offinial SDE based construction exists with above constraints

Example: T=7 9,=02=2 6,=502=3

$$k = 2$$
 $M_1 = M_2 = 4$ $N_1 = W_2 = 5$ $M_1 = M_2 = 5$

 $D_1 = (4,3)$ At Node 5:

$$3i_{-2}[0] + 3i_{-2}[1]$$
 $3i_{-1}[0] + 3i_{-2}[1]$ $3i_{-1}[0] + 3i_{-2}[1]$ $3i_{-1}[0] + 3i_{-2}[1]$ $3i_{-1}[0] + 2i_{-1}[1]$ $3i_{-1}[0] + 2i_{-1}[1]$

1) = (3,4) At Nade 9.

bi-1 [1] +28i[0] | di [1] + 28i[0] 51-7 [1] +251-1 [0] Node J

[4] j H timre L+S Si-2[o] Si-1[o] Si+1[o] Si+2[o] Si+2[o]1-7 [0] $\delta_{i-2}[1]$ $\delta_{i-1}[1]$ $\delta_{i+3}[1]$ $\delta_{i+3}[1]$

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