9/12/2010 Códigos para controlo de erros 1) $g(x) = 1 + x + x^3$ e(7,4) > 163 de verificação de erros $D_{1} = 1010$ Cq (001/1010)-> palavna de codigo $D(x) = (1+x^{2}) x^{3} = x^{3} + x^{5} = x^{2}$ $x^{3} + x + 1$ $-\chi^5 - \chi^3 - \chi^2 \chi^2$ 2/2 C, (101/1100) >> polavoso de cado Do = 1100 $D(x) \cdot x^3 = (1+x)x^3 = x^3+x^4-x^2+1$ $x^{4} + x^{3} | x^{3} + x + 1$ 0101110 23+22+x 23 X+17 1 88 8 8 1 1 1 1 1 $D(x) = 1 + x + x^2 + x^3$ $(D(x)) x^3 = x^3 + x^4 + x^5 + x^6$ $-\chi^{6}$ $-\chi^{9}$ $-\chi^{3}$ χ^{3} $+\chi^{2}$ +1

Dadas	Radigo	Perso	
1100	1011100	4	Coloras para contrata do and
1110.00	1111111	7	
010	0011010	3	-> 2 th -> m de entradas
1110	0101110	4	ma tabela (=) (xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
2111	0010111	40	(b +) or
1011	1001011	4	-22.000 86 6000 8 000 86 E
0101	1100101	4	Peso minimo -> 3
0010	1110010	4	11100) 2 min = 3
1001	0111001	4	51 5 - 50 (5x + 1) = 1000
101	0001101	3	3= ed+1
0110	1000110	3	ed=2 detecta2
0011	0100011	3	2403× 5× 5× 5×
0001	1010001	3	3-200+1
1000	1101000	3	20=2 -1 Corrige 1
0100	0110100	3	2
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10 10 10	salay of ooth	Hot),	8 00H = R
randim	emto k		L ~ 57%
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	1 \ 2 \	Lexy	Section 1

2) $g(x) = 1 + 2(+)x^4$ Q(15, 11) Q(15, 11)

D = 000000000 11

 $(\Im(x))\chi^{4} = (\chi^{9} + \chi^{10})\chi^{4} = \chi^{13} + \chi^{14}$

 $\chi^{14} + \chi^{13} \qquad \qquad \chi' + \chi + 1$ $\chi^{14} \chi^{14} \chi^{14} \chi^{10} \chi^{10}$

 $x''' + x'^{3}$ $x'' + x'^{10}$ $x'' + x'^{11}$ $x'' + x^{10}$ $x'' + x^{10} + x^{9} + x^{7} + x^{5} + x'' + x^{3} + x^{7}$ x 13+x"+x10 $x^{13} + x^{10} + x^{9}$ $\frac{\chi'' + \chi^8 + \chi^7}{\chi^9 + \chi^8 + \chi^7}$ 79+++76+25 28 + x7 + x6 + x5 x8 + 7 75 + x4 $x^7 + x^6 + x^4$ $\frac{\chi^7}{\chi^6 + \chi^3}$ χ^6 χ^3 $+\chi^2$ χ^2 (00100 a a a a a a 1) 4 C ep = dmin -1 90 - 3-1 - 1 ed = dmim - 1 = 2

3) $g(x) = 1 + 2(+x^{4})$ e(15,11)000 111110100000

 $(1+x+x^2+x^3+x^5)x^4 = x^4+x^5+x^6+x^7+x^9$

 $\chi^{9} + \chi^{7} + \chi^{6} + \chi^{5} + \chi^{4} | \chi^{4} + \chi_{+1}$ x7 +x4 27 + 24 + 23