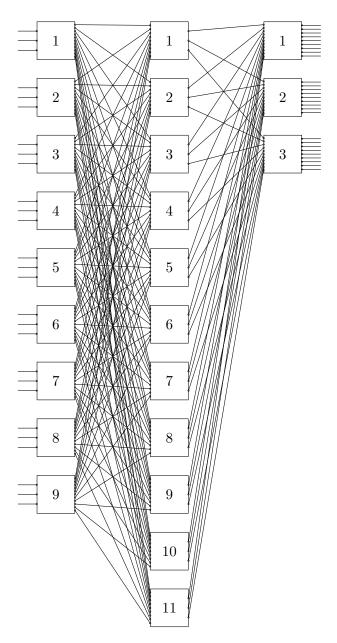
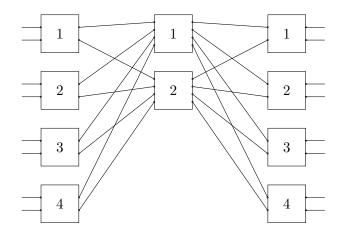
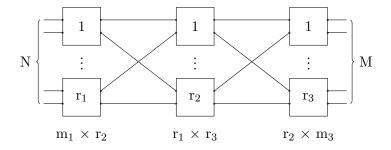
Clos network with 9 modules in the first stage and 3 modules in the last stage:



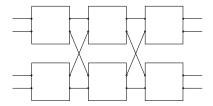
Clos network with 4 modules in the first stage and 4 modules in the last stage:



Example of network with labels:



A simple Benes Network:



A very complicated Benes Network complete 256 \times 256:

1	1	1								1	1	1
2	2	2	2	2	2	2	$\frac{1}{2}$			12	2	2
3	3		/ ³ / ₄		3 4	3	3	$\stackrel{3}{\searrow}$	34			3:
5	14 15	<u>4</u>		X 4 F	-#- -5k	-4- -5-	5			### N	#5	T.
=6					6	₹ <u>6</u>				\\\ <u>\</u>		
- - - - - -				\	X77		_;;X	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			₩ <u>5</u> \\\	
18				<u></u>	<u></u>	\leq_{8}	\leq_{8}	8			W3\\\\	
19	//// / @X	WW/// <u>@</u> XX	XX V 9—	9	9	9	9	9	—	(X) <u> </u>	// <u> </u>	
10	/////	XXXX// / 10XX		10	10	10	10	10	10/	10	10	10
=11	//////					11			XIII//\\		11	11
12	/////12	12		<u>12</u>	12	12	12	12		12	12	12 =
13	///// <u>13</u>		13	X 13	13		13			13	13	13:
14 15	14	14	14	14	14	14	14	14	14	14	14	14
16	15 16	15	16	16	16	15	16	16	16	16	16	15
17	10 17	17	17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	X 19	19	19	19	19	/19	19	19
20	20	20	//20	20	20	20	20	20	20	20	20	20
21	21	21	\/ <u> </u> 21\\	X 21	21	21	21	21	21	21	21	21
22	22			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	22	22	22		<u> </u>	X 22 // (M	22	22
23	23	WW <u>23</u>		23	23	23	23	23	<u></u>	XX 23 // //	23	23 =
24	24	<u>24</u>	24	24	24	24	24	24	24	24 ///	24	24
25 P	25		25	25	25	25	25	25	25 XX	25	25	25
27	26 27	26	26 27	26	26	26	26	26	26 XX	26	26	26 = 27 =
28	28	$\left\langle \left\langle \left$	$\left\langle \left\langle \left$	28	28	28	28	28	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	28	28	28
29	29	29	X \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	29	29	29	29	29	X 29 //	29	29	29
30	30	30	30	X 30 X	30	\leq_{30}	30	×30/	X30//	30	30	30
31	31	31	31	31	X31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32	32	32	32	32
	33	33	33	33	33	33	33	33	33	33	33	33 =
34	34	34	34	34	34	34	34	<u>34</u> ►	Z 34	34	34	34
35	35	35	35	35	35	35	35	$\searrow \frac{35}{35}$	35	35	35	35 =
36 37	36	36 37	36	36	36	36	36	36	36	36 37	36	36 = 37 =
38	38	M///38	37 38	37 38	37 38	38	37		$\frac{37}{38}$	38 ///	37	38
39	39			39	39	39	39	39	39	XX 39 (\\\)	39	39
40	40	W/// 1 40	40	40	40	40	40	40	40	40 \\\	40	40
41	41		XXXV41—	41	41	41	41	41	41	41 \\\	41	41
42	42	42	WW 42	42	42	42	42	42	42/	42	42	42
43	43	43	$\sqrt{43}$	$\sqrt{43}$	43	43	43	$\sqrt{43}$	$\sqrt{43}$	(X)43 \\	43	43
44	44			X44 —	44	44	44	44	\times 44 $//$	X 44 WW	44	44
45	45	WWW 45	45	X 45	45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46	46	46	46	46	46
48	47	47	47	47	47	47	47	47	47	47	47	47
49	48	48 49 50 51	49	49	49	49	49	49	48	49	48	49
50	50	50	50	50	50	50	50	50	50	50	50	50
51	51	51	51	51	X ₅₁	51	51	51		/ 51	51	51
52	52	52 53	<u></u>	X 52 C	52	\leq_{52}	52	52	52	Z 52 /////	52	52
= 53	53	}	\\/\ <u>153</u> \\\	X 53	53	53	53	53	53	53//	XX 53 ///	53
54	54	54	M 54 X	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	54	54	54	54	54	54	54	54
55	55	WW \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	XXX/55/~ `	55	55	55	55	55	55	\$\\\	<u>55</u> ///	55 =
56	56	W 56 X	56	56	56	56	56	56	56	56	56	56
57	57 58		W 57	57	57	57	57	57	57 /	57	57	57:
58	59	58 59	W 58 59	58 59	58	58	58	58 59	58 59	55	58 59	[58] [59]
= 60	60	$\left\{\left(\left(\left(\frac{39}{60}\right)\right)\right\}\right\}$	X \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(10) × (10)	60	60	60				60	60
61	61	61		X 61	61	61	61	61	51	61	61	61
62	62	62		62	62	62	62	X 100 X	62	62	62	62
63	63	63	63	63	X	63	63	63	63	63	63	63
64	64	64	64	64	64	64	64	64	64	64	64	64