Input:

```
CIPerEmpEmo <- umxConfint(MPerEmpEmo_t,parm = c("top.a_std","top.c_std","top.
e_std"),run = TRUE)
```

Output:

Path Estimate:

```
> sCIPerEmpEmo$CI$estimate
 [1]  0.000312547  0.439442288 -0.140349393  0.230025490  0.000000000  0.000000000  0.000000000
 [8]  0.000000000  0.000000000  0.000000000  0.000000000  0.000000000  0.000000000  0.000000000
[15]  0.000000000  0.000000000  0.503692637  0.489799699  0.562179763  0.536856121  0.000000000
[22]  0.000000000  0.000000000  0.000000000  0.000000000  0.000000000  0.000000000  0.000000000
[29]  0.000000000  0.000000000  0.000000000  0.000000000  0.863882880  0.225033760  0.120359293
[36]  0.000000000  0.000000000  0.718572569  0.000000000  0.000000000  0.000000000  0.000000000
[43]  0.806082876  0.303263867  0.000000000  0.000000000  0.000000000  0.752930811
>
```

CI details:

	parameter	side	value	fit	diagnostic
1	top.a_std[1,1]	lower	6.108190e-17	10496.02	active box constraint
2	top.a_std[1,1]	upper	2.716179e-01	10496.02	success
3	top.a_std[2,1]	lower	-5.598422e-01	10496.02	active box constraint
4	top.a_std[2,1]	upper	6.189842e-01	10496.02	success
5	top.a_std[3,1]	lower	-3.519611e-01	10496.02	active box constraint
6	top.a_std[3,1]	upper	3.909229e-01	10496.02	success
7	top.a_std[4,1]	lower	-4.032583e-01	10496.02	active box constraint
8	top.a_std[4,1]	upper	4.687104e-01	10496.02	success
9	top.a_std[1,2]	lower	0.000000e+00	10496.02	success
10	top.a_std[1,2]	upper	0.000000e+00	10496.02	success
11	top.a_std[2,2]	lower	0.000000e+00	10496.02	active box constraint
12	top.a_std[2,2]	upper	0.000000e+00	10496.02	success
13	top.a_std[3,2]	lower	0.000000e+00	10496.02	success
14	top.a_std[3,2]	upper	0.000000e+00	10496.02	success
15	top.a_std[4,2]	lower	0.000000e+00	10496.02	active box constraint
16	top.a_std[4,2]	upper	0.000000e+00	10496.02	success
17	top.a_std[1,3]	lower	0.000000e+00	10496.02	success
18	top.a_std[1,3]	upper	0.000000e+00	10496.02	success
19	top.a_std[2,3]	lower	0.000000e+00	10496.02	success
20	top.a_std[2,3]	upper	0.000000e+00	10496.02	success
21	top.a_std[3,3]	lower	0.000000e+00	10496.02	success
22	top.a_std[3,3]	upper	0.000000e+00	10496.02	success
23	top.a_std[4,3]	lower	0.000000e+00	10496.02	success
24	top.a_std[4,3]	upper	0.000000e+00	10496.02	active box constraint
25	top.a_std[1,4]	lower	0.000000e+00	10496.02	active box constraint
26	top.a_std[1,4]	upper	0.000000e+00	10496.02	success
27	top.a_std[2,4]	lower	0.000000e+00	10496.02	success
28	top.a_std[2,4]	upper	0.000000e+00	10496.02	success
29	top.a_std[3,4]	lower	0.000000e+00	10496.02	success
30	top.a_std[3,4]	upper	0.000000e+00	10496.02	success
31	top.a_std[4,4]	lower	0.000000e+00	10496.02	success
32	top.a_std[4,4]	upper	0.000000e+00	10496.02	success
33	top.c_std[1,1]	lower	3.561156e-01	10496.02	success
34	top.c_std[1,1]	upper	6.171292e-01	10496.02	active box constraint
35	top.c_std[2,1]	lower	-4.982397e-01	10508.31	alpha level not reached
36	top.c_std[2,1]	upper	6.277033e-01	10496.02	active box constraint
37	top.c_std[3,1]	lower	-4.583907e-01	10509.83	alpha level not reached

38	top.c_std[3,1]	upper	6.963282e-01	10496.02	success
39	top.c_std[4,1]	lower	-2.481046e-01	10510.38	alpha level not reached
40	top.c_std[4,1]	upper	6.632332e-01	10496.02	active box constraint
41	top.c_std[1,2]	lower	0.000000e+00	10496.02	success
42	top.c_std[1,2]	upper	0.000000e+00	10496.02	success
43	top.c_std[2,2]	lower	0.000000e+00	10496.02	active box constraint
44	top.c_std[2,2]	upper	0.000000e+00	10496.02	success
45	top.c_std[3,2]	lower	0.000000e+00	10496.02	success
46	top.c_std[3,2]	upper	0.000000e+00	10496.02	success
47	top.c_std[4,2]	lower	0.000000e+00	10496.02	success
48	top.c_std[4,2]	upper	0.000000e+00	10496.02	active box constraint
49	top.c_std[1,3]	lower	0.000000e+00	10496.02	success
50	top.c_std[1,3]	upper	0.000000e+00	10496.02	success
51	top.c_std[2,3]	lower	0.000000e+00	10496.02	success
52	top.c_std[2,3]	upper	0.000000e+00	10496.02	success
53	top.c_std[3,3]	lower	0.000000e+00	10496.02	success
54	top.c_std[3,3]	upper	0.000000e+00	10496.02	success
55	top.c_std[4,3]	lower	0.000000e+00	10496.02	success
56	top.c_std[4,3]	upper	0.000000e+00	10496.02	active box constraint
57	top.c_std[1,4]	lower	0.000000e+00	10496.02	success
58	top.c_std[1,4]	upper	0.000000e+00	10496.02	active box constraint
59	top.c_std[2,4]	lower	0.000000e+00	10496.02	success
60	top.c_std[2,4]	upper	0.000000e+00	10496.02	success
61	top.c_std[3,4]	lower	0.000000e+00	10496.02	success
62	top.c_std[3,4]	upper	0.000000e+00	10496.02	success
63	top.c_std[4,4]	lower	0.000000e+00	10496.02	success
64	top.c_std[4,4]	upper	0.000000e+00	10496.02	success
65	top.e_std[1,1]	lower	7.868650e-01	10496.02	active box constraint
66	top.e_std[1,1]	upper	9.263282e-01	10496.02	success
67	top.e_std[2,1]	lower	1.297507e-01	10496.02	success
68	top.e_std[2,1]	upper	3.153013e-01	10496.02	active box constraint
69	top.e_std[3,1]	lower	5.277037e-03	10496.02	active box constraint
70	top.e_std[3,1]	upper	2.390006e-01	10496.02	active box constraint
71	top.e_std[4,1]	lower	0.000000e+00	10496.02	success
72	top.e_std[4,1]	upper	0.000000e+00	10496.02	success
73	top.e_std[1,2]	lower	0.000000e+00	10496.02	active box constraint
74	top.e_std[1,2]	upper	0.000000e+00	10496.02	active box constraint
75	top.e_std[2,2]	lower	6.507984e-01	10496.02	active box constraint
76	top.e_std[2,2]	upper	7.856286e-01	10496.02	success
77	top.e_std[3,2]	lower	0.000000e+00	10496.02	success
78	top.e_std[3,2]	upper	0.000000e+00	10496.02	success
79	top.e_std[4,2]	lower	0.000000e+00	10496.02	success
80	top.e_std[4,2]	upper	0.000000e+00	10496.02	success
81	top.e_std[1,3]	lower	0.000000e+00	10496.02	success
82	top.e_std[1,3]	upper	0.000000e+00	10496.02	success
83	top.e_std[2,3]	lower	0.000000e+00	10496.02	success
84	top.e_std[2,3]	upper	0.000000e+00	10496.02	success
85	top.e_std[3,3]	lower	7.027687e-01	10496.02	success
86	top.e_std[3,3]	upper	9.005382e-01	10496.02	active box constraint
87	top.e_std[4,3]	lower	1.888169e-01	10496.02	success
88	top.e_std[4,3]	upper	4.093252e-01	10496.02	success
89	top.e_std[1,4]	lower	0.000000e+00	10496.02	success
90	top.e_std[1,4]	upper	0.000000e+00	10496.02	success
91	top.e_std[2,4]	lower	0.000000e+00	10496.02	success
92	top.e_std[2,4]	upper	0.000000e+00	10496.02	success
93	top.e_std[3,4]	lower	0.000000e+00	10496.02	success
94	top.e_std[3,4]	upper	0.000000e+00	10496.02	success

```
95 top.e_std[4,4] lower  6.922411e-01 10496.02   active box constraint
96 top.e_std[4,4] upper  8.042477e-01 10496.02   active box constraint
```