

EARN Document

Title: Country contributions based on traffic
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This document calculates the country contributions based on traffic figures. The calculations are based on the traffic figures for January to May 1989. These figures have a number of anomalies but are sufficiently accurate to base further decisions.

The first table is extracted from the traffic figures and shows the total traffic for each country month by month. Transmitted data and transmitted plus received data are tabulated as it would seem contributions would be based on one of these rather than on received traffic only.

The second table shows the contributions for 1989 and 1990 based on GNP, received traffic, and total traffic. No allowances have been made for server compensation as no relevant figures are available.

The third table is the complete EARN financial model with 1990 to 1993 contributions based on traffic figures.

There seems a poor correlation between the GNP figures and traffic figures. The largest anomaly is with Switzerland which is biased by CERN traffic. A special case could be made for Switzerland but they are just the largest of several institutes which operate international facilities such as DESY, IIL, and RAL.

Table 1

EARN TRAFFIC FIGURES

Sent traffic *1000 records

Table with 8 columns: Country, jan, feb, mar, apr, may, jun, TOTAL. Rows include AR, AT, BE.

20796					
BR	2	4	7	5	6
24					
CA	583	654	727	515	550
3029					
CH	16697	17248	17161	19469	17926
88501					
CI	0	0	0	0	0
0					
CL	2	1	4	1	3
11					
DE	16406	17207	15987	14498	25201
89299					
DK	4167	2172	2145	2066	1759
12309					
EB	0	0	0	0	0
0					
EG	0	0	0	0	2
2					
ES	2147	3077	3397	5086	862
14569					
FI	6985	555	7903	4850	7224
27517					
FR	11336	11816	14225	14469	14956
66802					
GB	7258	7286	7765	7394	8368
38071					
GR	208	495	1418	1672	951
4744					
IE	3955	4437	3951	4720	678
17741					
IL	5009	4390	4731	4467	5779
24376					
IS	0	0	0	0	0
0					
IT	16212	8288	6772	12321	2467
46060					
JP	37	39	36	31	89
232					
KR	1	1	1	0	1
4					
LU	0	0	0	2	23
25					
MX	5	12	13	5	8
43					
NL	3636	5484	5713	8932	7338
31103					
NO	290	422	438	14	41

1205						
PT	130	77	159	138	121	
625						
SA	0	0	0	0	0	
0						
SE	633	762	743	769	657	
3564						
SG	9	18	12	10	13	
62						
TR	4711	3714	4319	5102	3522	
21368						
TW	0	3	3	2	9	
17						
US	15373	13779	17505	14495	26730	
87882						
YU	0	0	0	0	2	
2						
Total	122716	111471	123909	128603	136723	0
623422						

Sent plus received traffic *1000 records

	jan	feb	mar	apr	may	jun	TOTAL
AR	0	0	1	2	2		
5							
AT	7646	10549	9809	9003	10140		
47147							
BE	7605	7542	7472	7772	11868		
42259							
BR	9	16	15	11	16		
67							
CA	985	1101	1275	916	1114		
5391							
CH	26175	29482	29180	30786	34064		
149687							
CI	0	0	0	0	0		
0							
CL	19	6	12	3	7		
47							
DE	44695	42898	44963	40980	64723		
238259							
DK	7696	4692	4483	4565	4686		
26122							
EB	0	0	0	0	0		
0							

EG	0	0	0	0	135
135					
ES	5549	6590	7450	10027	1359
30975					
FI	10935	1044	13611	7802	12037
45429					
FR	19695	20306	24100	24489	28019
116609					
GB	16168	18171	20225	20344	19895
94803					
GR	1546	3055	2002	6213	3600
16416					
IE	6881	7452	6690	7759	1221
30003					
IL	20923	18108	21822	20601	22149
103603					
IS	0	0	0	0	0
0					
IT	23001	16747	16460	18713	3597
78518					
JP	134	139	106	156	190
725					
KR	13	33	258	12	5
321					
LU	0	2	0	3	25
30					
MX	19	155	42	57	55
328					
NL	17515	19131	21679	25673	22372
106370					
NO	4024	4324	5324	292	234
14198					
PT	2001	2219	3059	2941	3454
13674					
SA	0	0	0	0	0
0					
SE	4770	3873	3654	3255	3115
18667					
SG	69	117	122	55	122
485					
TR	7523	6231	7137	7834	6242
34967					
TW	47	41	104	67	53
312					
US	20932	18354	22349	20565	41320
123520					
YU	0	40	3	12	153
208					

Total 256575 242418 273407 270908 295972 0
 1339280

Table2 Contribution comparisons

Comparison between contributions based on GNP, sent traffic, and sent plus received traffic. The traffic figures are taken from January to May 1989 and make no allowance for server compensation. The figures should be regarded as illustrative. All figures are in ECUs.

Country	Based on GNP		Based on Sent		Based on Rx+Tx	
	1990 computed	1991 computed	1990 computed	1991 computed	1990 computed	1991 computed
Algeria	0	0	0	0	0	0
Austria	24008	33928	36137	55084	33311	50154
Belgium	26216	37779	33342	50209	31033	46181
Cyprus	0	0	0	0	0	0
Denmark	22179	30738	24363	34546	23513	33064
Egypt	10158	13177	6482	6764	6542	
6870						
Finland	21809	30093	40453	62612	32510	48758
France	119600	191579	94977	148631	78641	
120138						
Germany	146141	237872	118780	190149	135334	219022
Greece	11816	16067	11499	15515	14130	
20104						
Iceland	0	0	0	0	0	0
Ireland	9696	12370	25250	39501	20462	31148
Israel	9886	12701	32270	51745	54762	
90975						
Italy	106846	169333	73031	110353	60890	
89175						
Ivory Coast	2539	3293	1620	1690	1620	
1690						
Luxemburg	2258	2804	1646	1736	1634	1714
Morocco	0	0	0	0	0	0
Netherlands	38892	56482	49107	74300	65770	
103365						
Norway	19537	26130	12614	14054	17956	
23371						
Portugal	10657	14047	7141	7914	12852	17875
Spain	50458	76657	31613	43787	30634	

42079						
Sweden	34161	48231	19970	23478	24898	
32074						
Switzerland	34290	48455	109836	180226	85957	
138575						
Tunisia	0	0	0	0	0	0
Turkey	17906	23284	33947	51264	27635	
40254						
United Kingdom	103499	163495	64579	95609	68479	
102413						
Yugoslavia	17447	22485	11341	11834	11436	
11999						
India	0	0	0	0	0	0

Sub total	840000	1271000	840000	1271000	840000	1271000

