

Are We Growing Fast Enough?

A snapshot of the global IPv6 routing table

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RIPE 58, Amsterdam

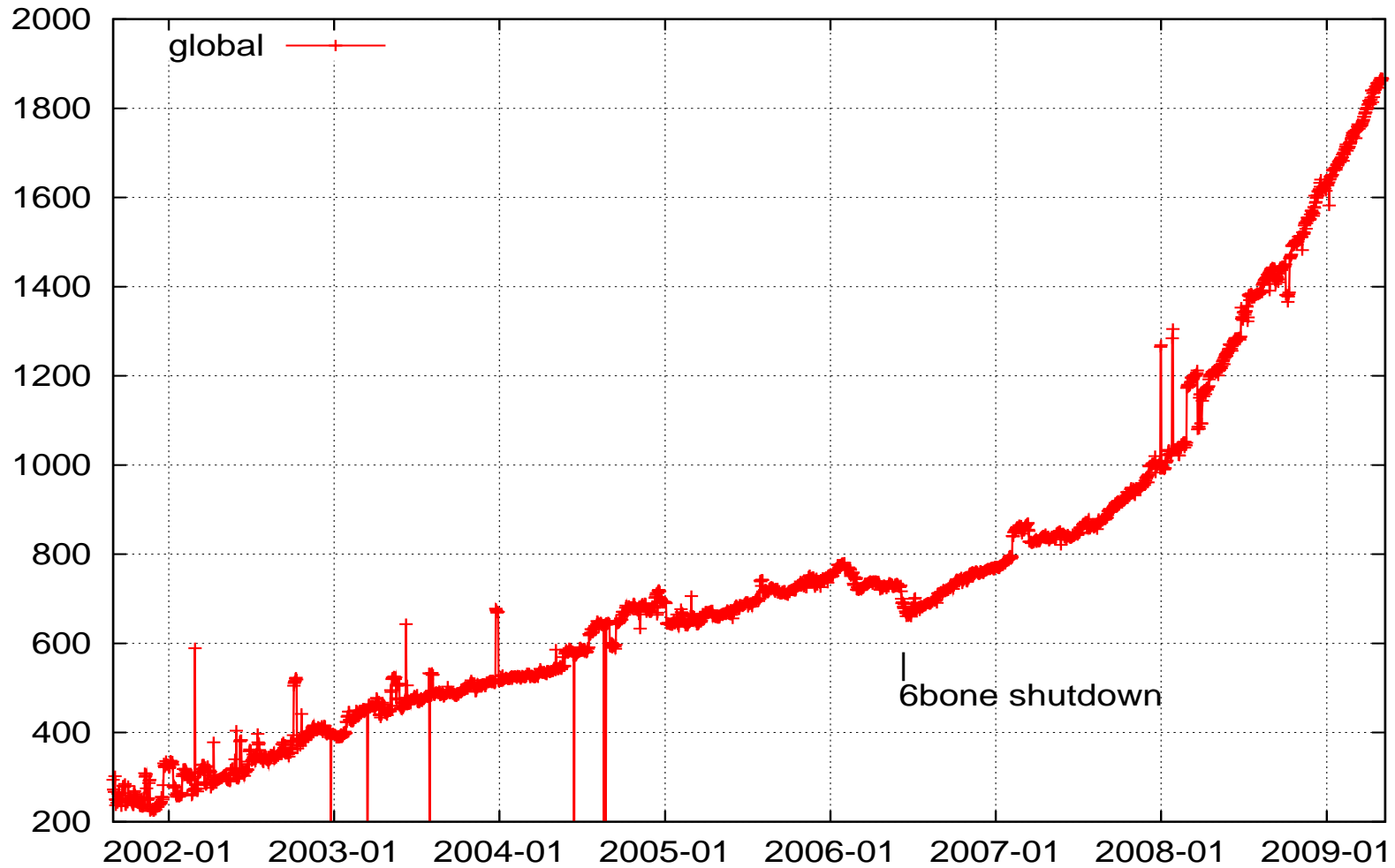
Overview

- pictures & trends
- numbers...
- things that should not be there...
- route6 current practices
- references

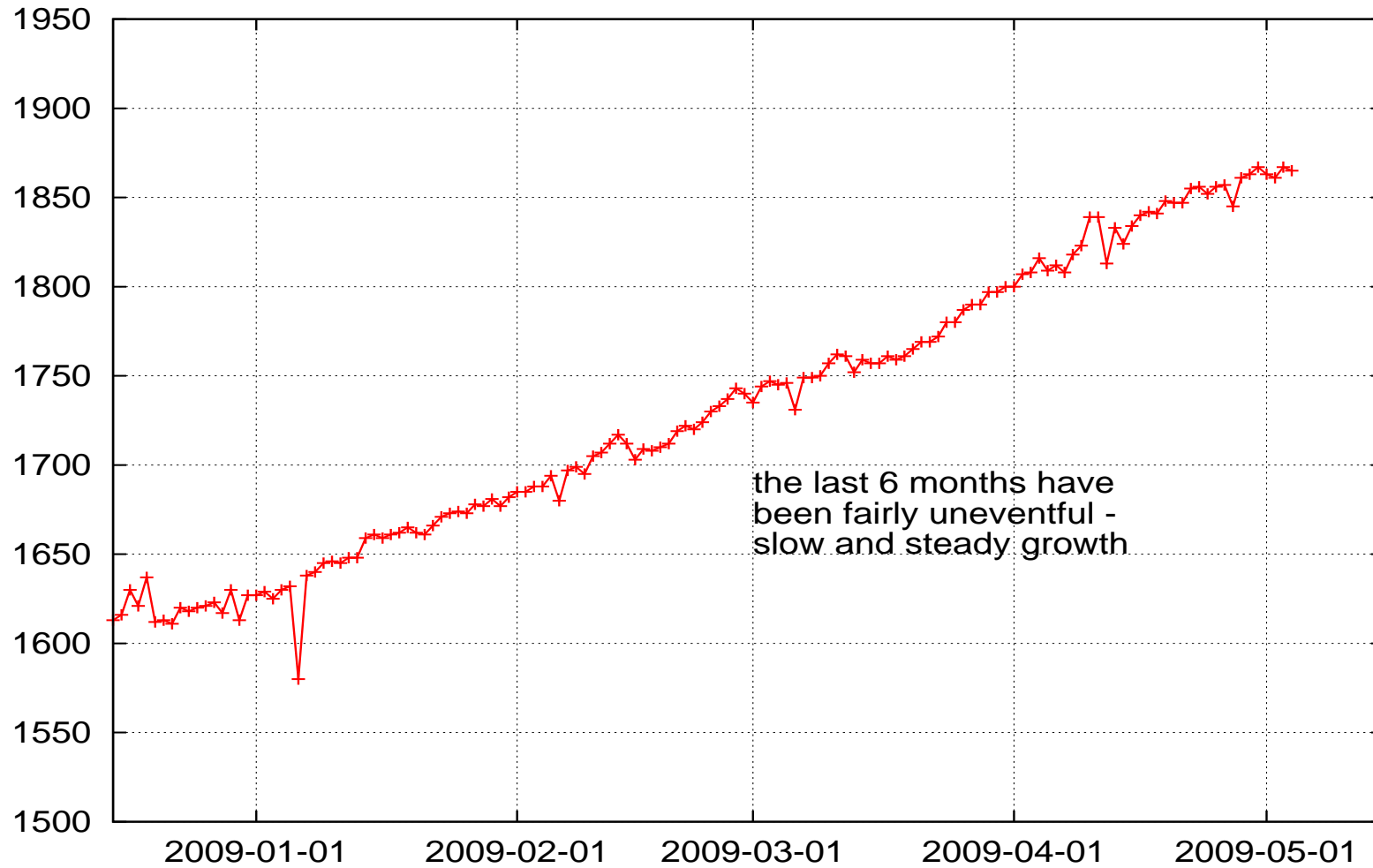
Slides online at: <http://www.space.net/~gert/RIPE/R58-v6-table/>

Prefixes in BGP Table

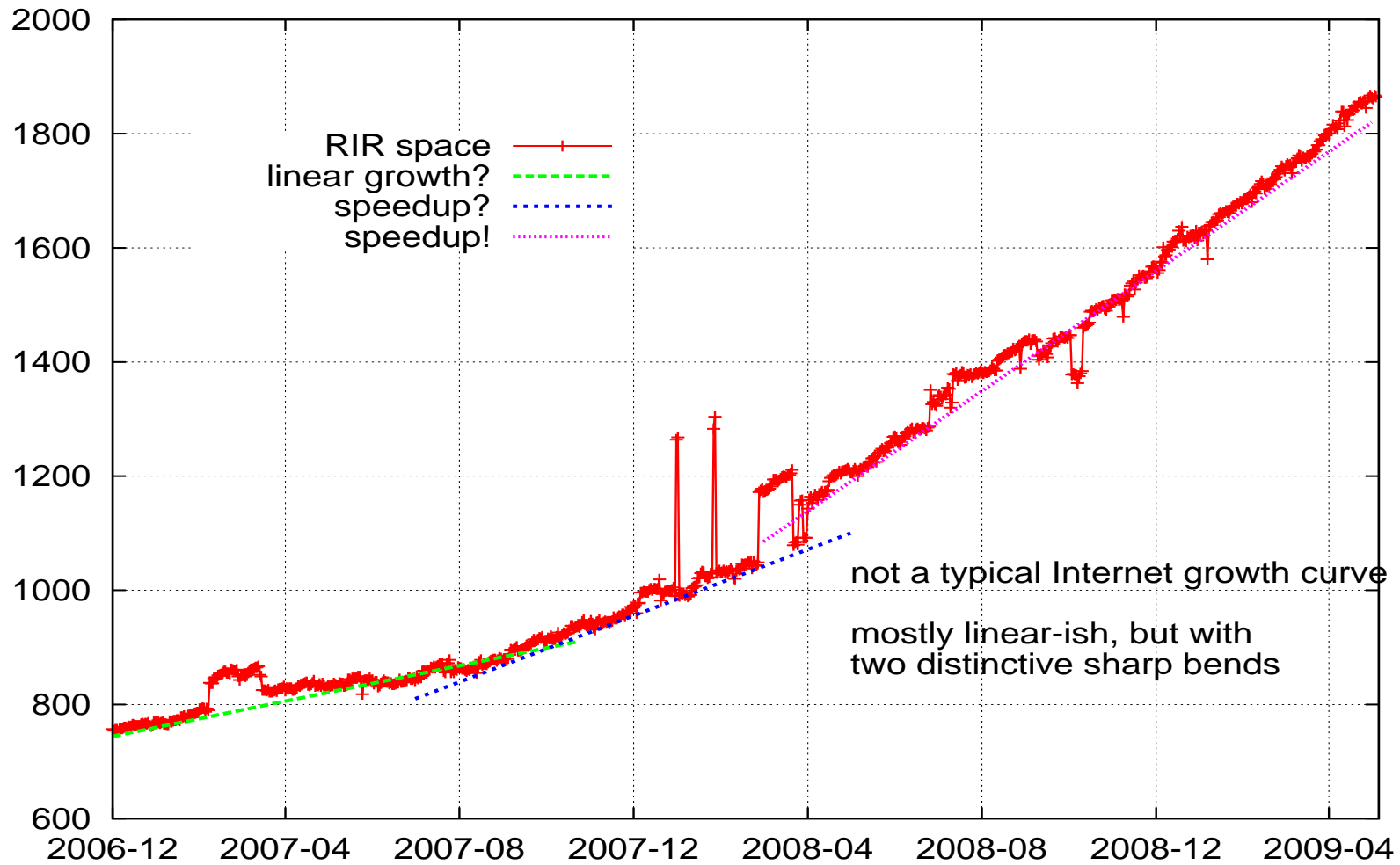
Graphics: Total Prefixes - 7 years



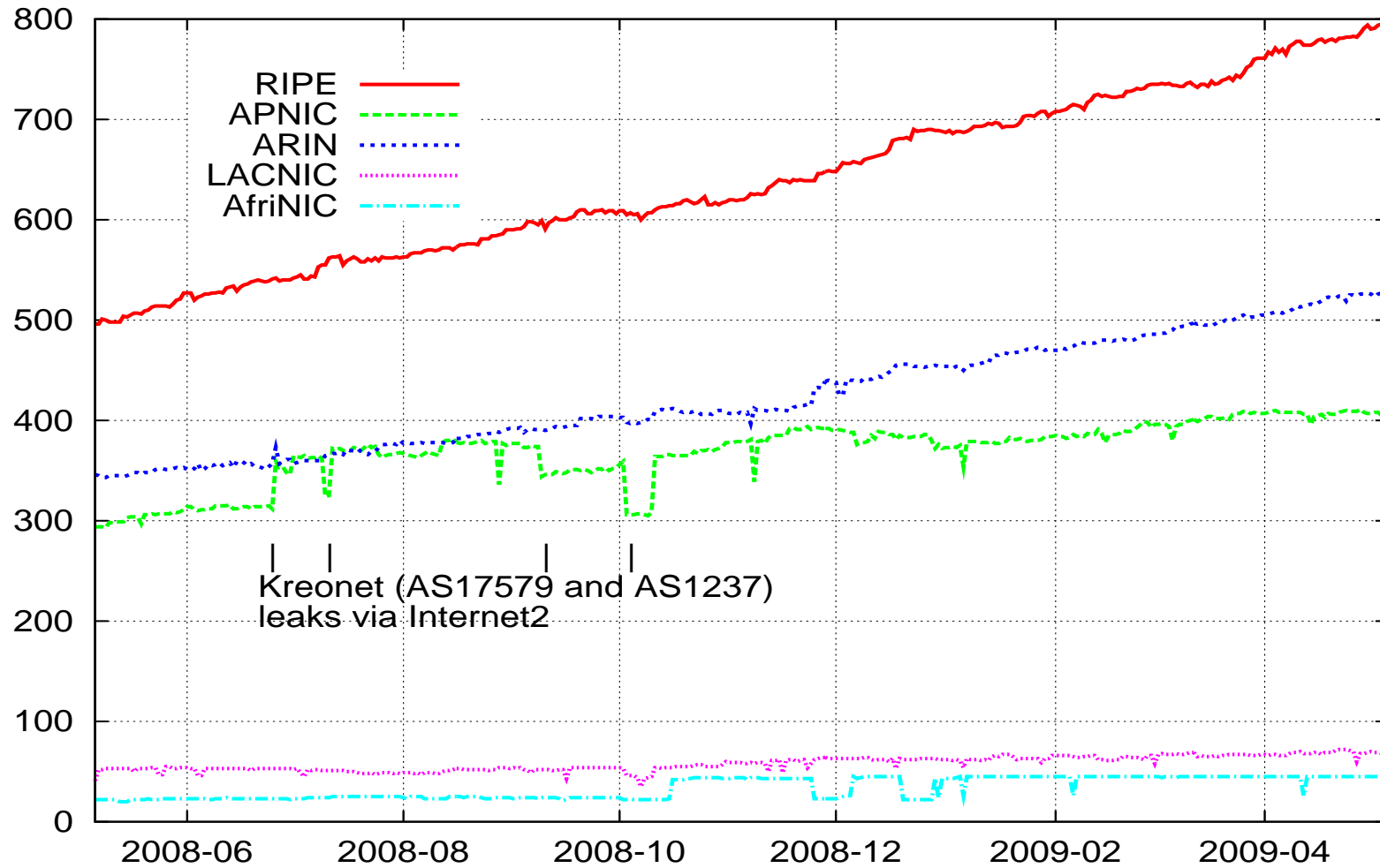
Graphics: zoom into last 6 months



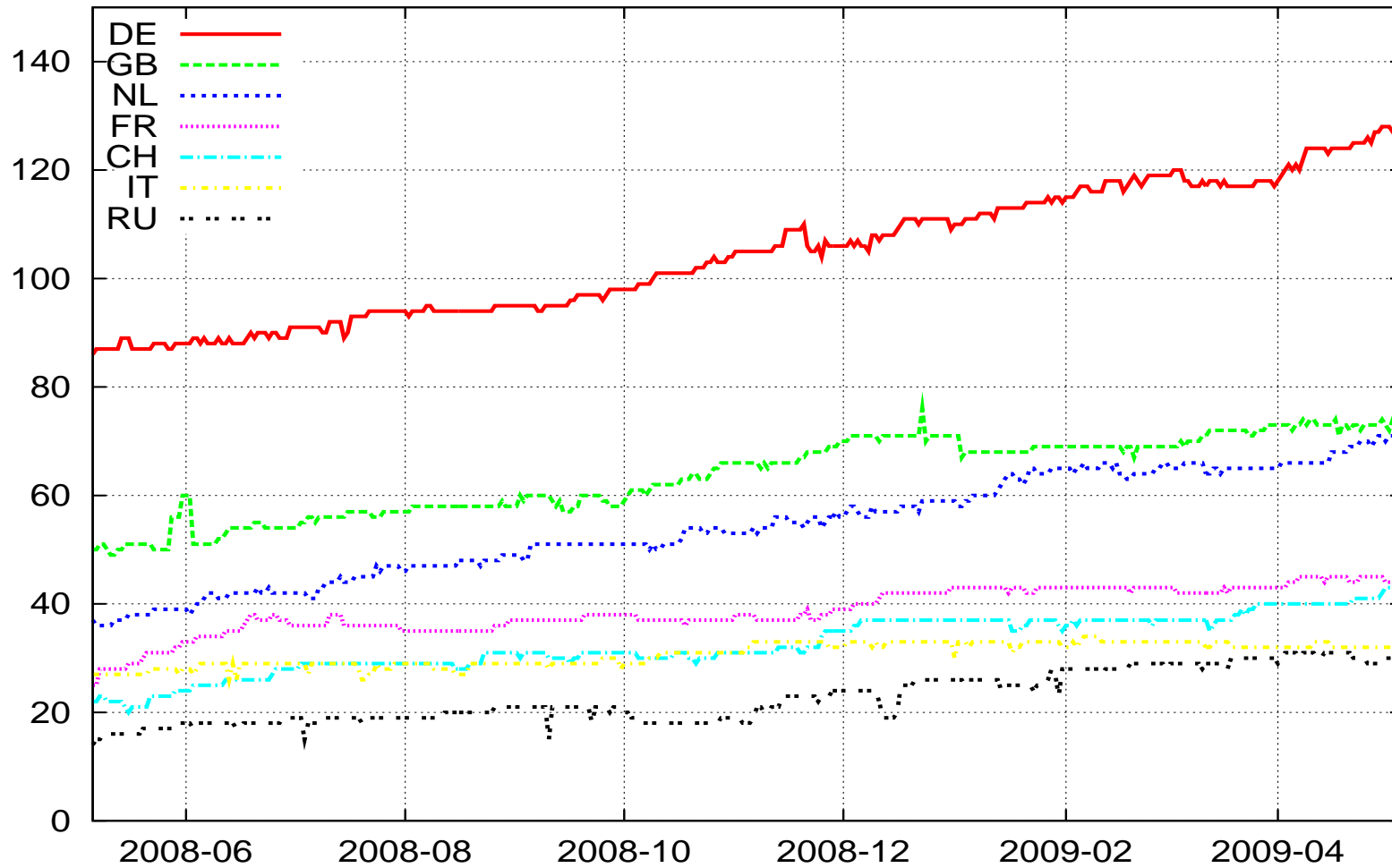
Graphics: trends? (30 months)



Graphics: prefixes by RIR region

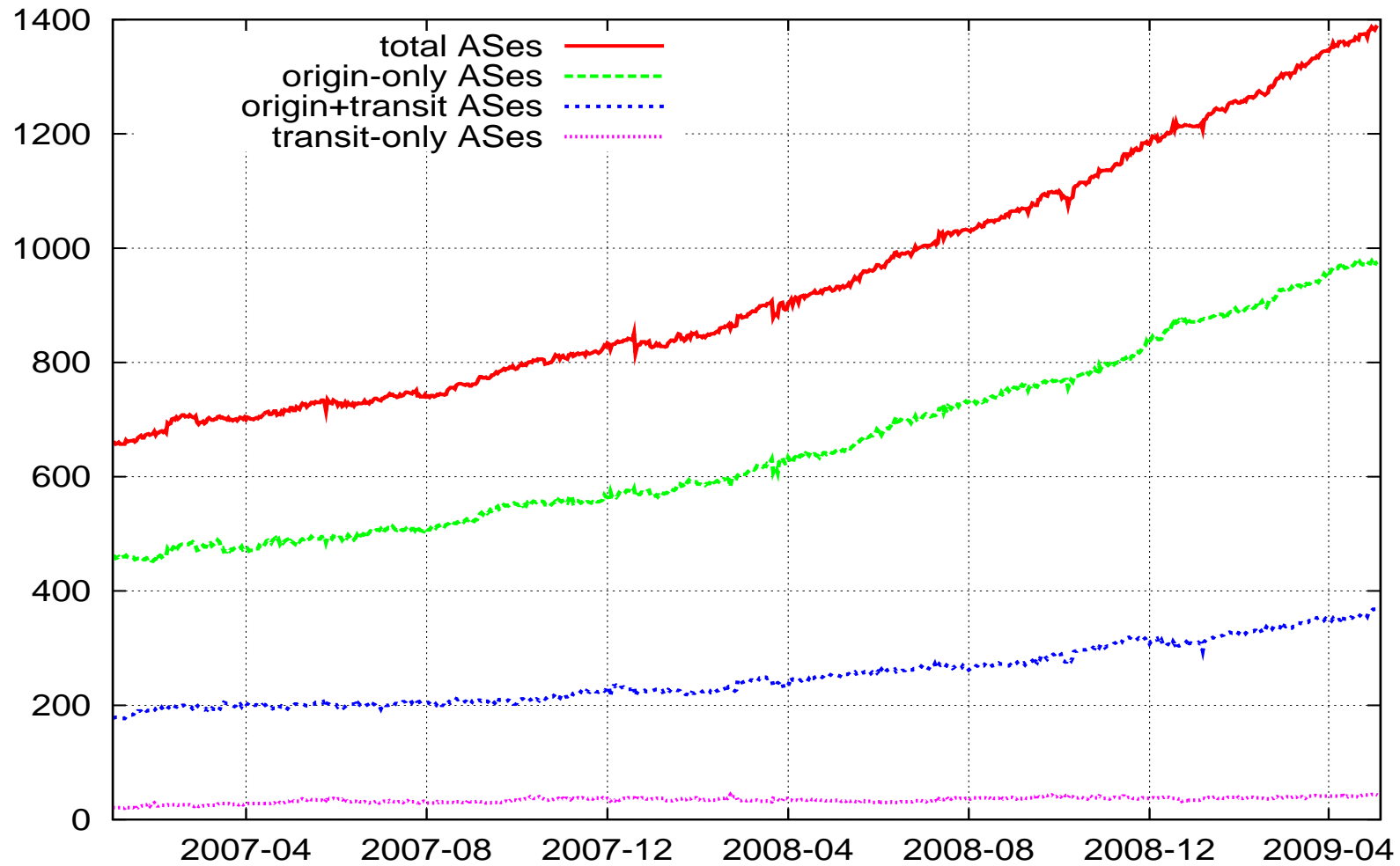


Graphics: prefixes by country (RIPE)

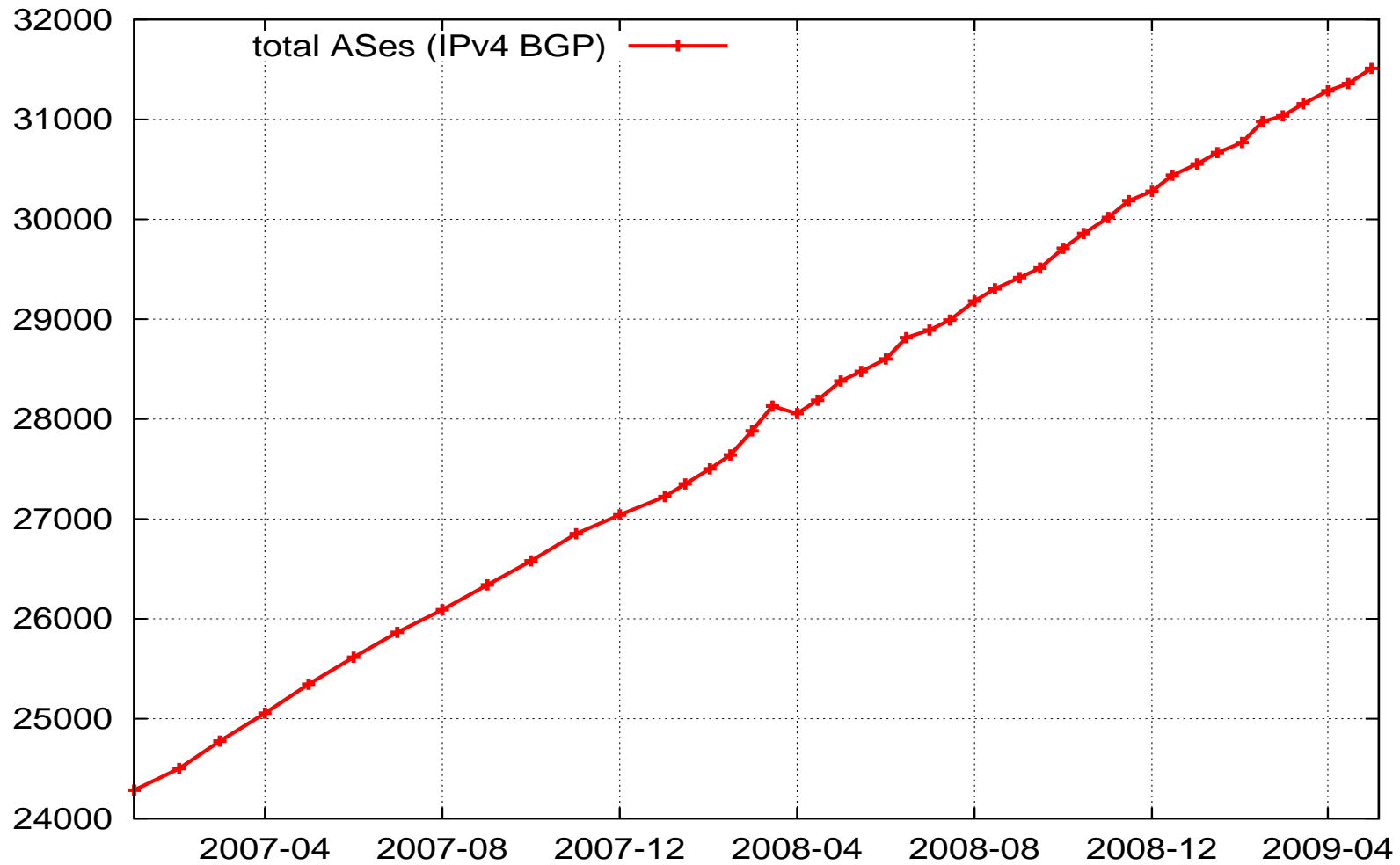


AS Numbers

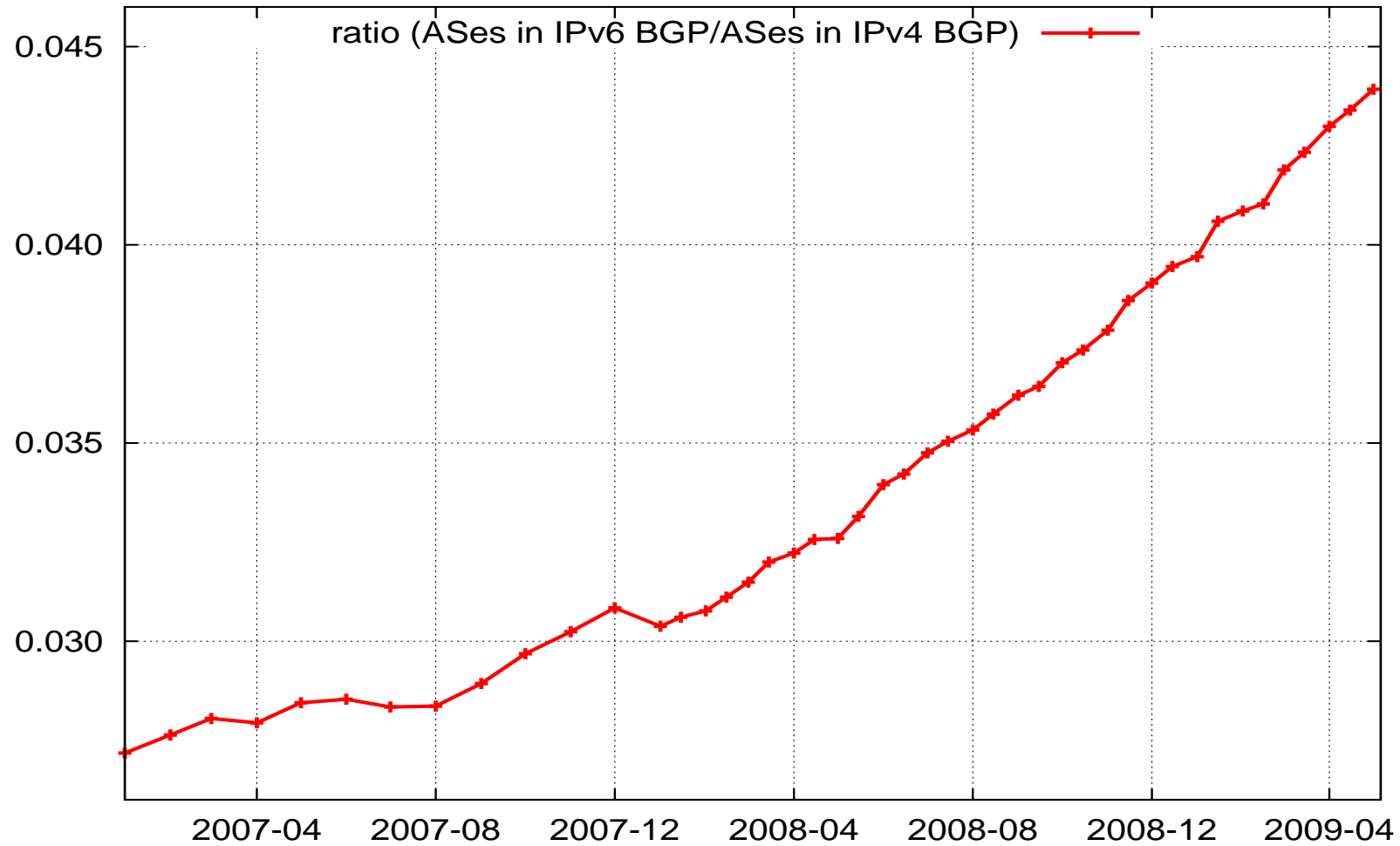
Graphics: AS Numbers (v6 BGP)



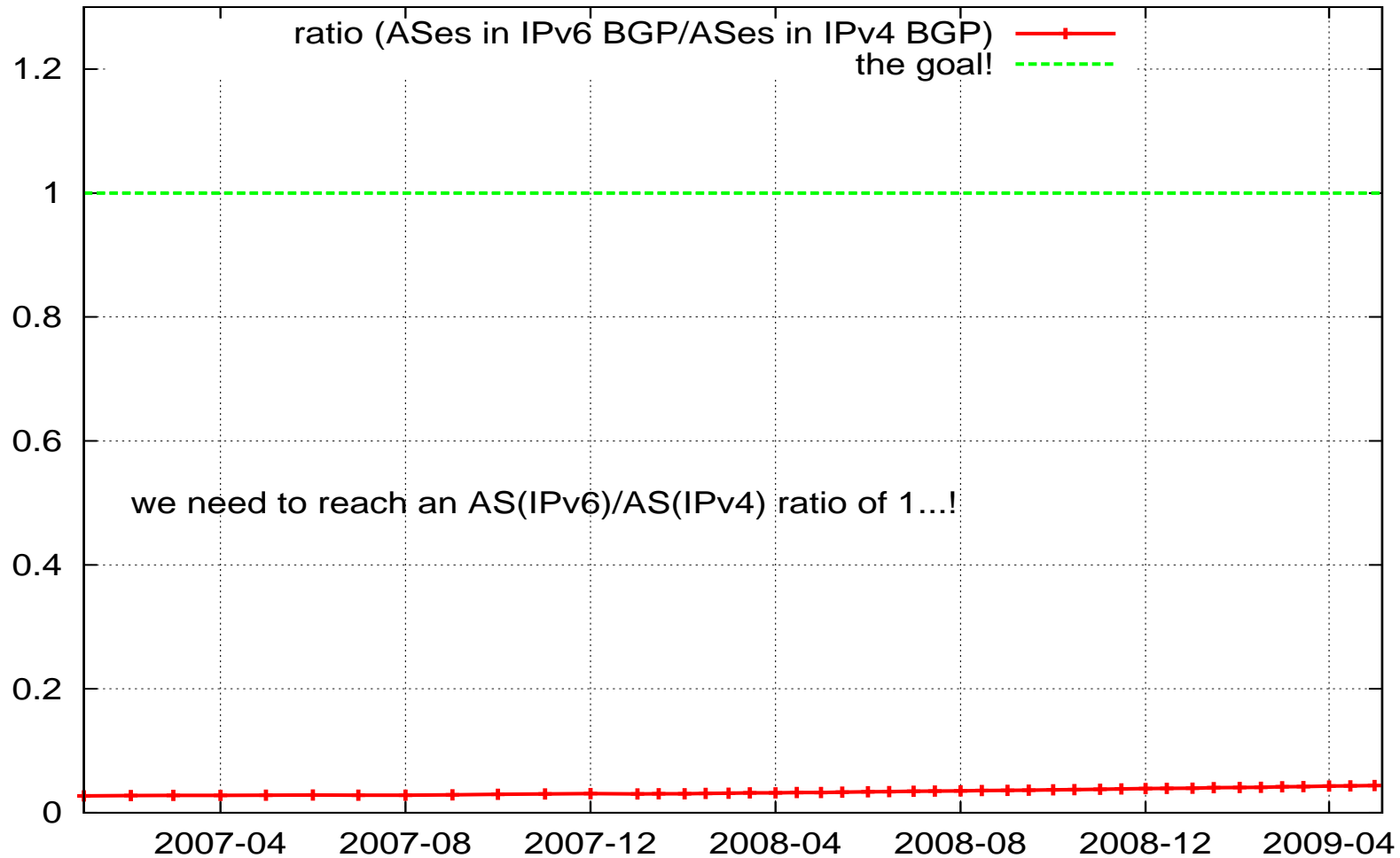
Graphics: AS Numbers (v4 BGP)



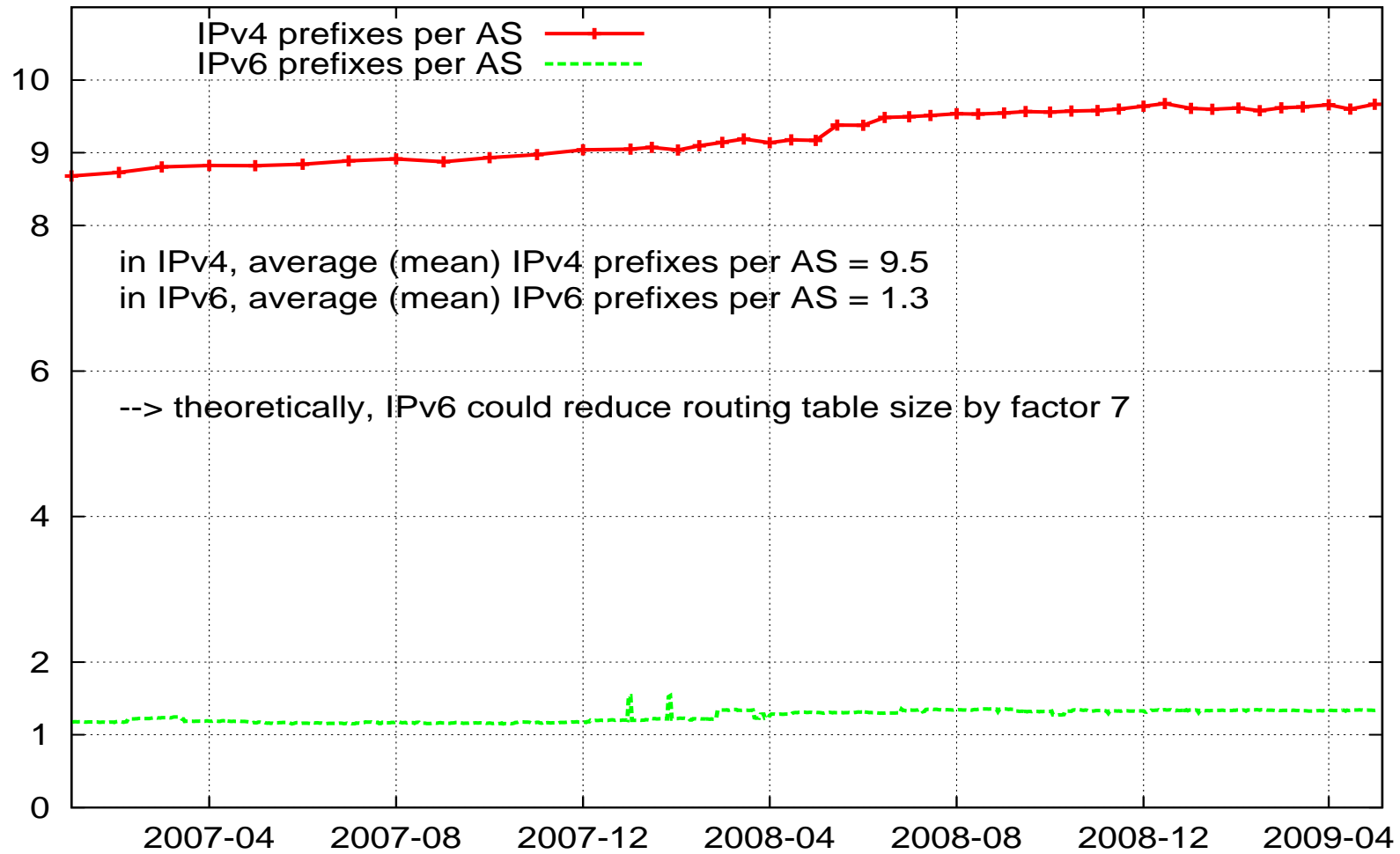
Graphics: AS Number Ratio (v6 BGP/v4 BGP)



Graphics: AS Number Ratio (v6 BGP/v4 BGP)



Graphics: Prefixes per AS (v4+v6)



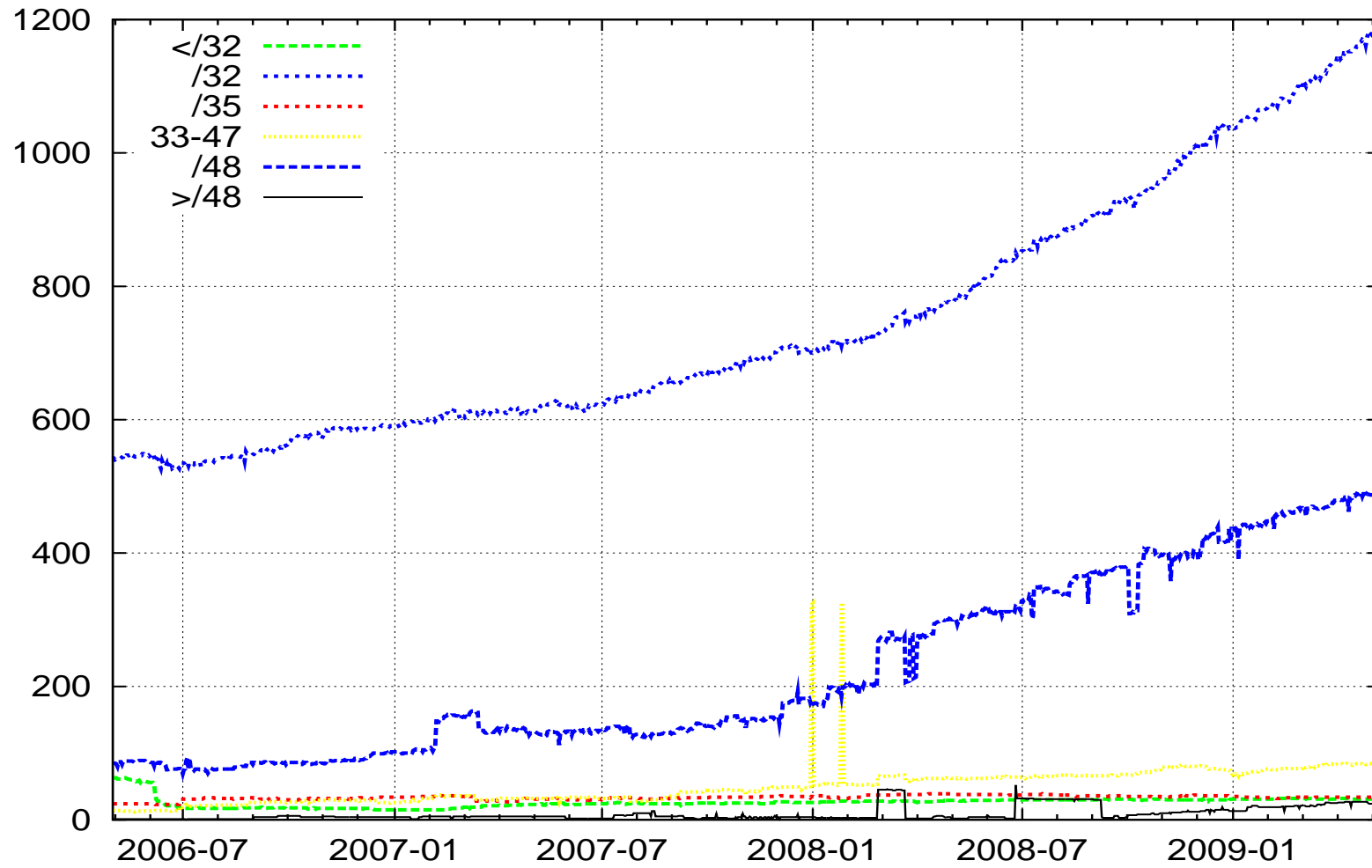
Looking at Prefixes again

Numbers - Prefixes

As of 2009-05-02: 1840 prefixes in total (2008-10-28: 1501)

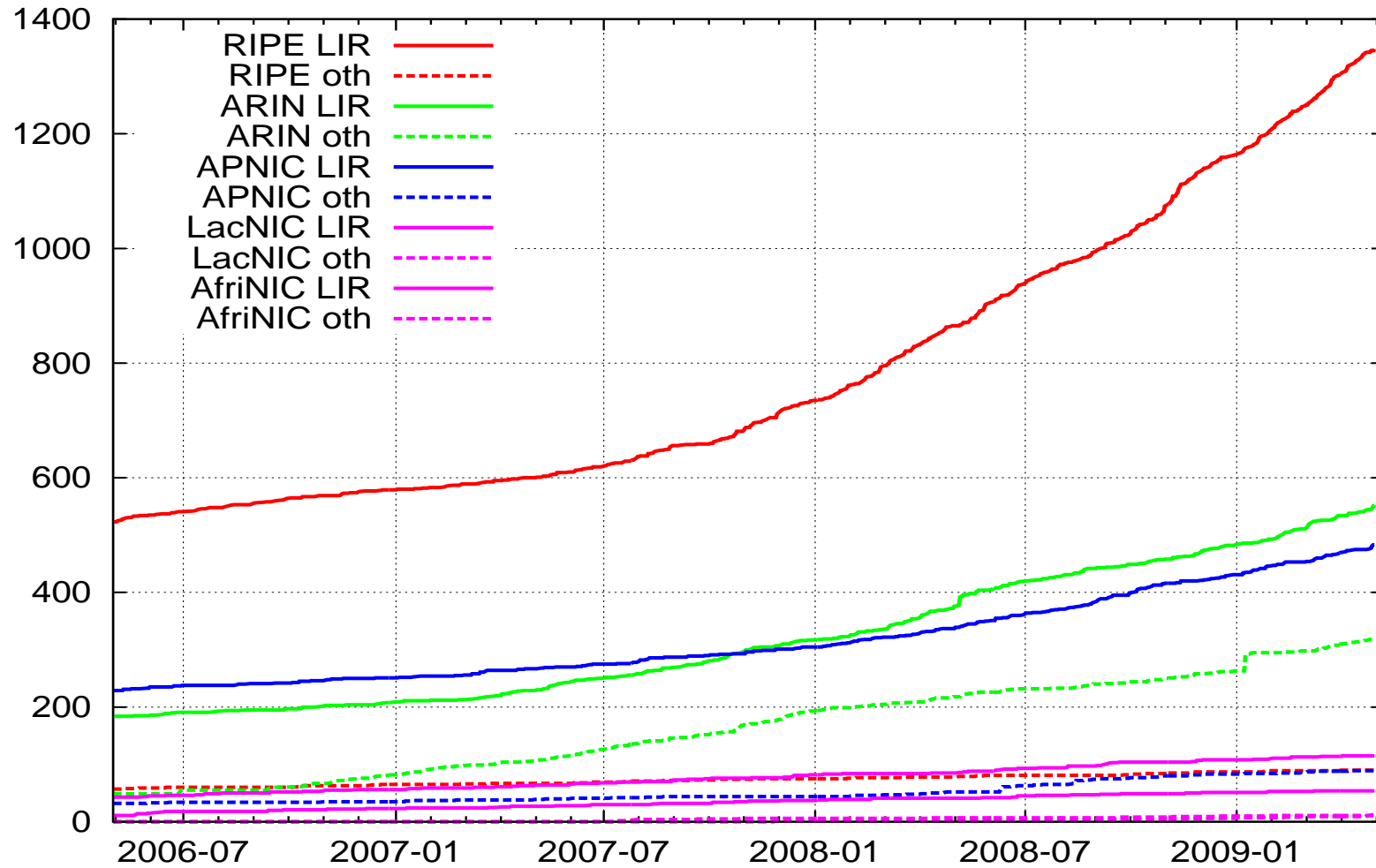
/n	global	RIPE	APNIC	ARIN	Lacn.	Afri.	oth
/16	1	0	0	0	0	0	1
/19	2	2	0	0	0	0	0
/20..23	8	4	4	0	0	0	0
/24..27	9	5	3	1	0	0	0
/28..31	11	2	6	0	3	0	0
/32	1180	658	221	230	47	19	5
/33..34	23	10	8	5	0	0	0
/35	34	9	18	7	0	0	0
/36..39	9	3	0	6	0	0	0
/40	26	8	4	11	1	2	0
/42..47	26	8	1	16	0	1	0
/48	487	77	129	240	18	23	0
/49..63	7	0	6	1	0	0	0
/64..128	17	2	6	8	1	0	0

Graphics - Prefixes / Size

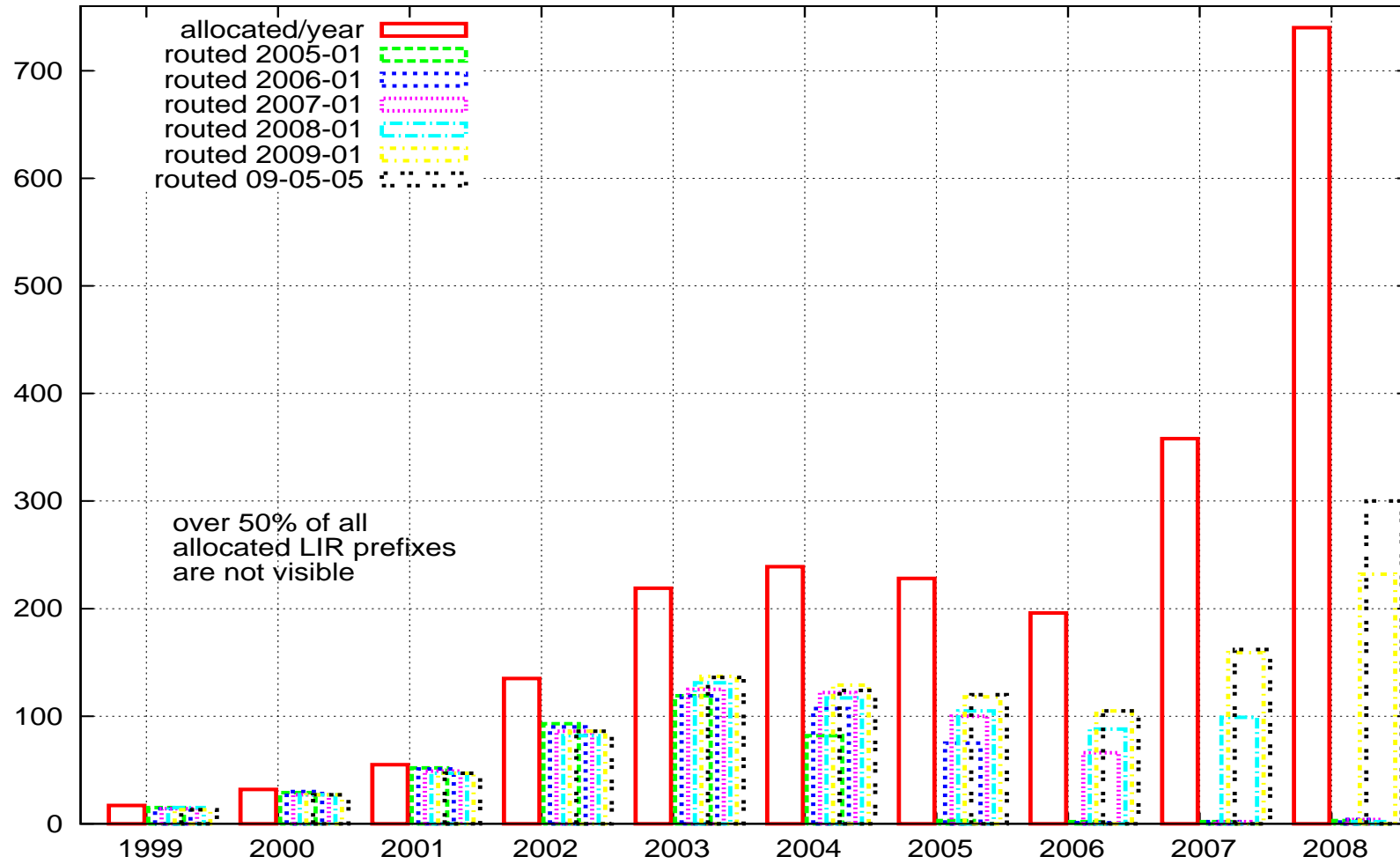


Allocations

Graphics: Allocations over Time



Graphics: Allocated vs. Routed (LIRs)



Allocated vs. Routed - by region & class

RIR	type	alloc.	visible	perc.	subnets	
ARIN	LIR	553	227	41%	104	
	IXP	23	0	0%	6	
	Critical Inf.	86	30	35%	54	
	Internal Inf.	4	0	0%	0	
	PI	207	51	25%	50	(*)
APNIC	LIR	483	225	47%	129	
	IXP	21	1	5%	1	
	PI	68	22	32%	29	(*)
RIPE	LIR	1349	661	49%	85	
	IXP	75	16	21%	0	
	Anycast DNS	11	7	64%	0	
LACNIC	LIR	111	40	36%	25	(NIR)
	Crit.Inf.+PI	16	4	25%	0	
AfriNIC	LIR	54	19	35%	23	
	PI	11	3	27%	0	

Questions?

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...and to answer the question from the title page:

NO, we are **not** growing fast enough!