

IPv6路由发展报告

北京邮电大学信息网络中心

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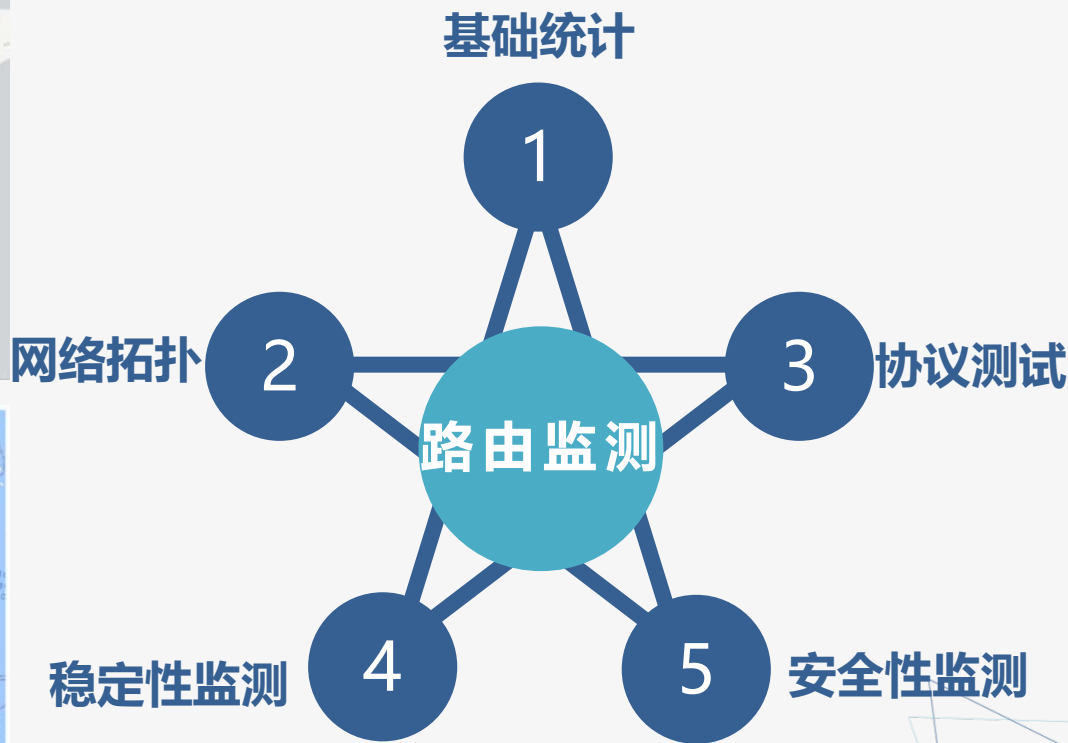
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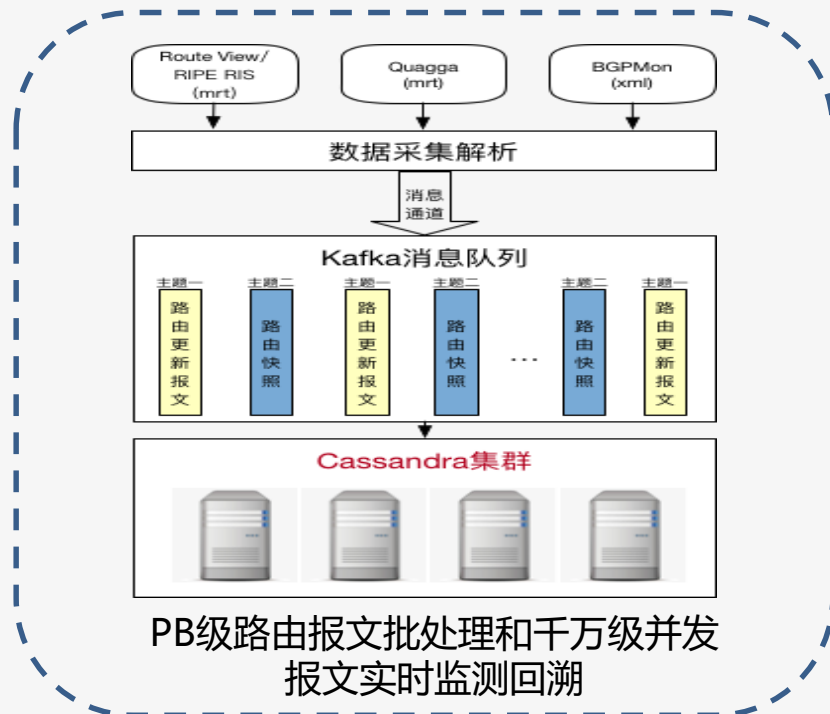
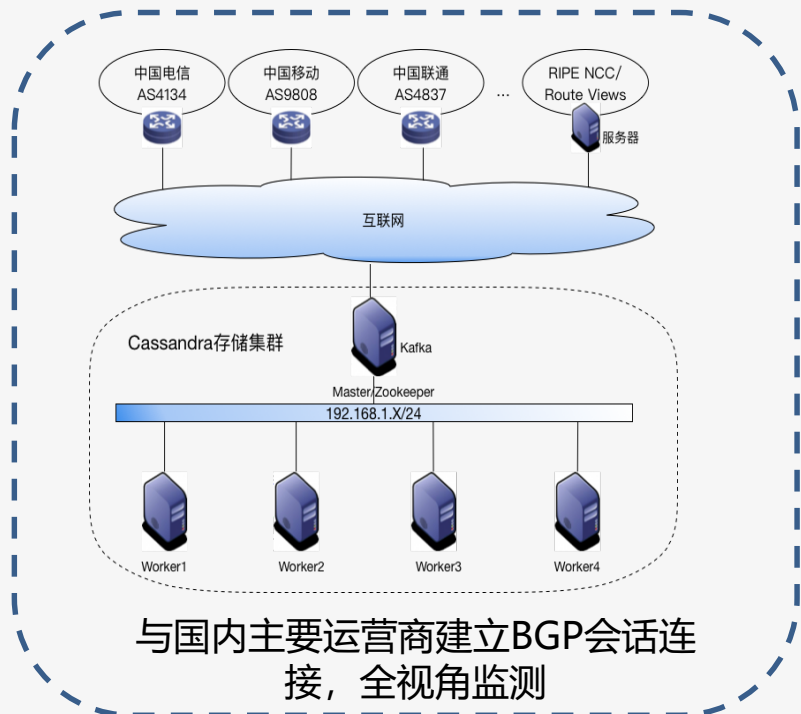
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IPv6路由监测概述 | 全球路由监测概述





近五年域间路由监测积累，构建了域间路由历史和实时监测分析平台

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IPv6地址分配情况



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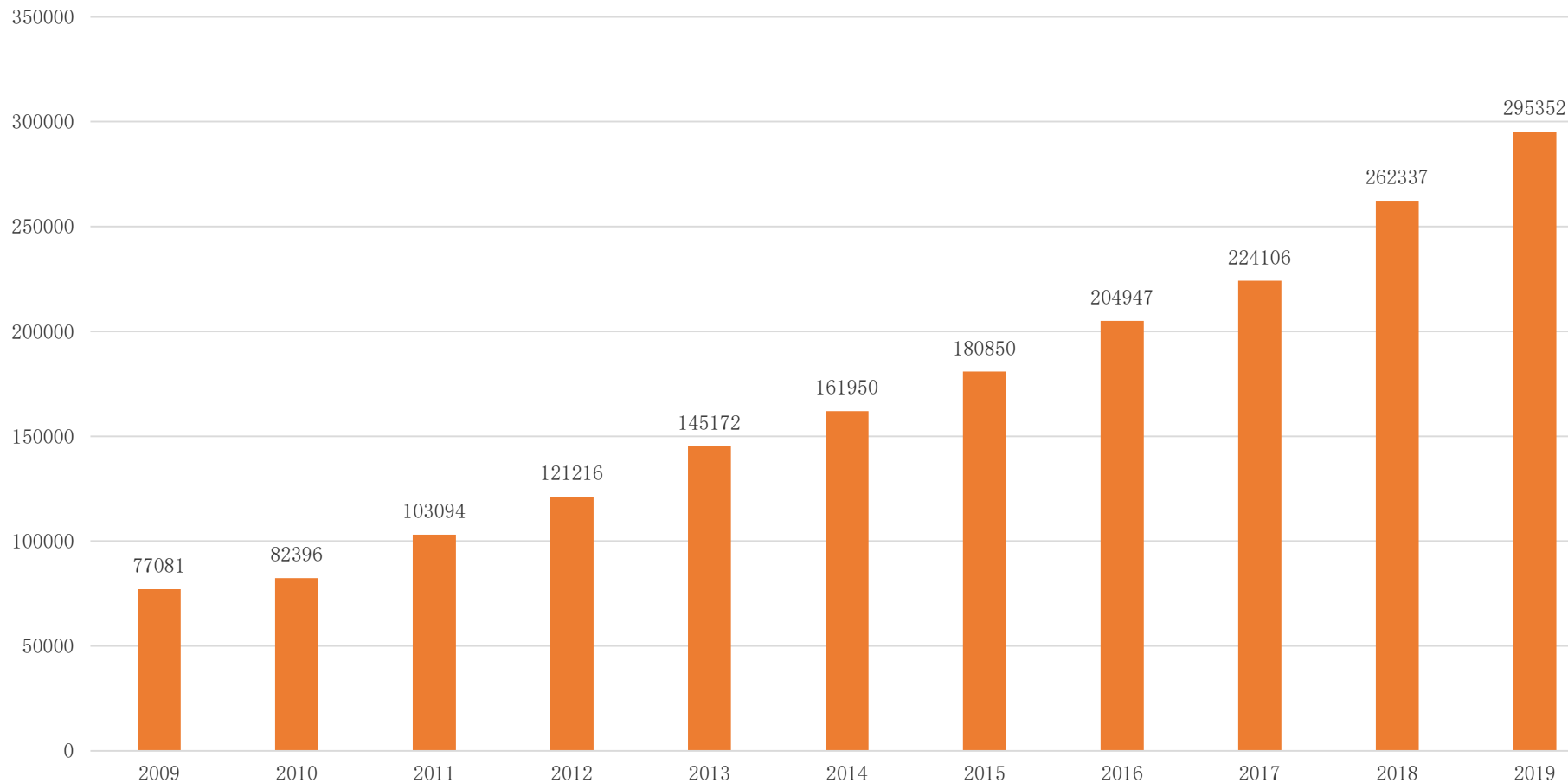


IPv6网络连通情况

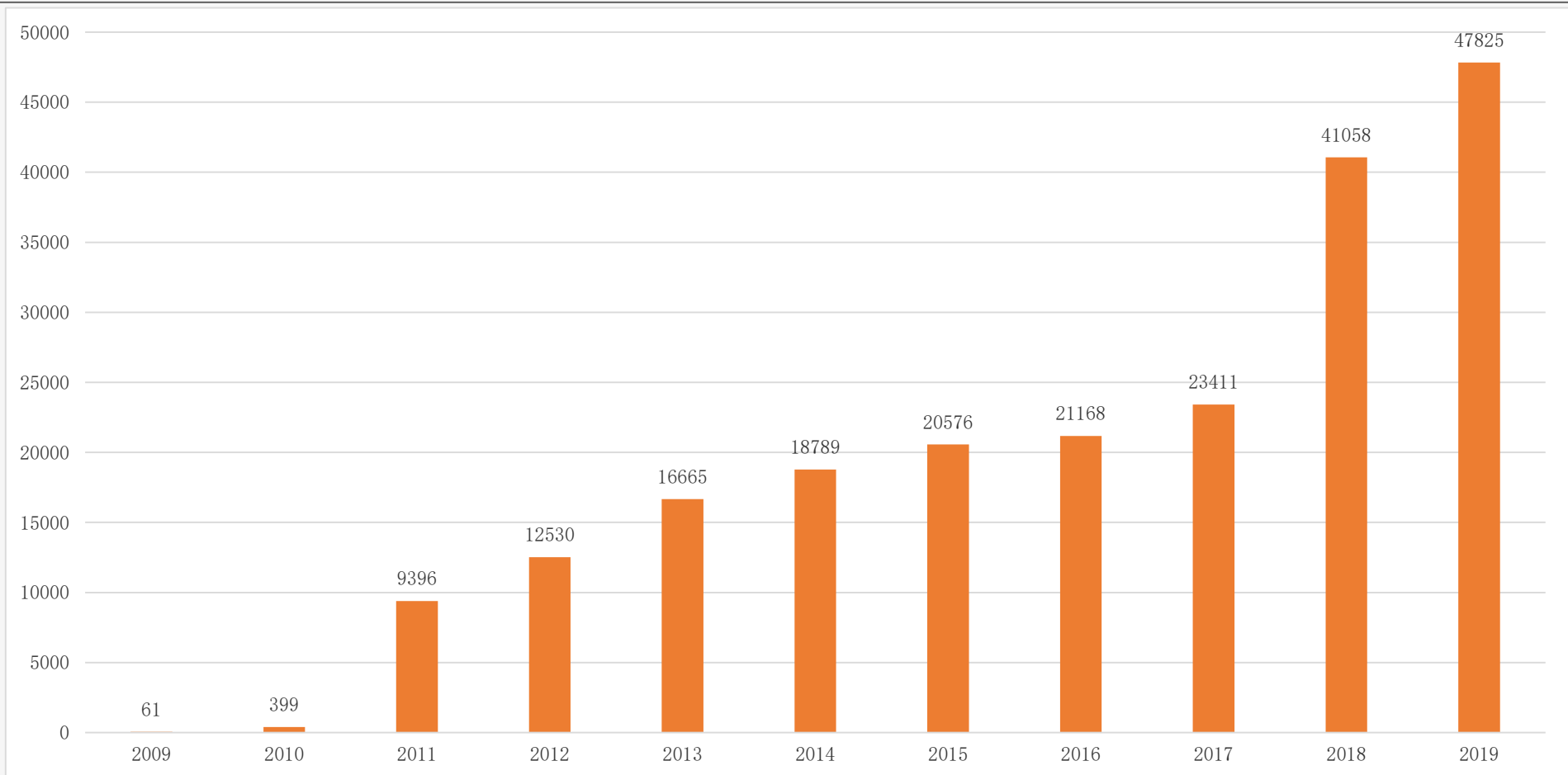


IPv6应用分布情况

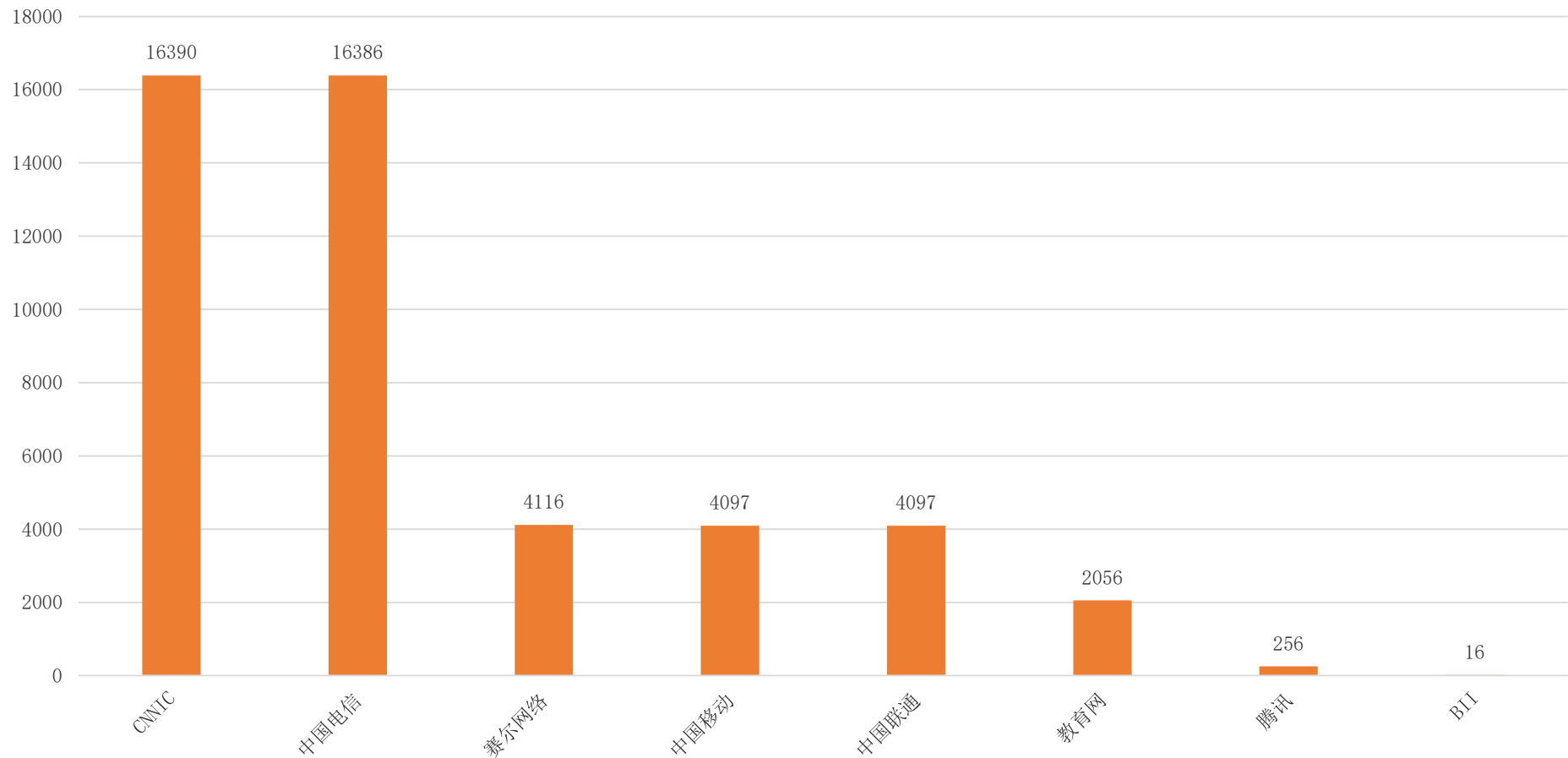
IPv6地址分配情况 | 全球近十年IPv6地址分配情况(/32)



IPv6地址分配情况 | 中国近10年IPv6地址分配情况 (/32)



IPv6地址分配情况 | 国内主要机构IPv6地址分配排名 (/32)



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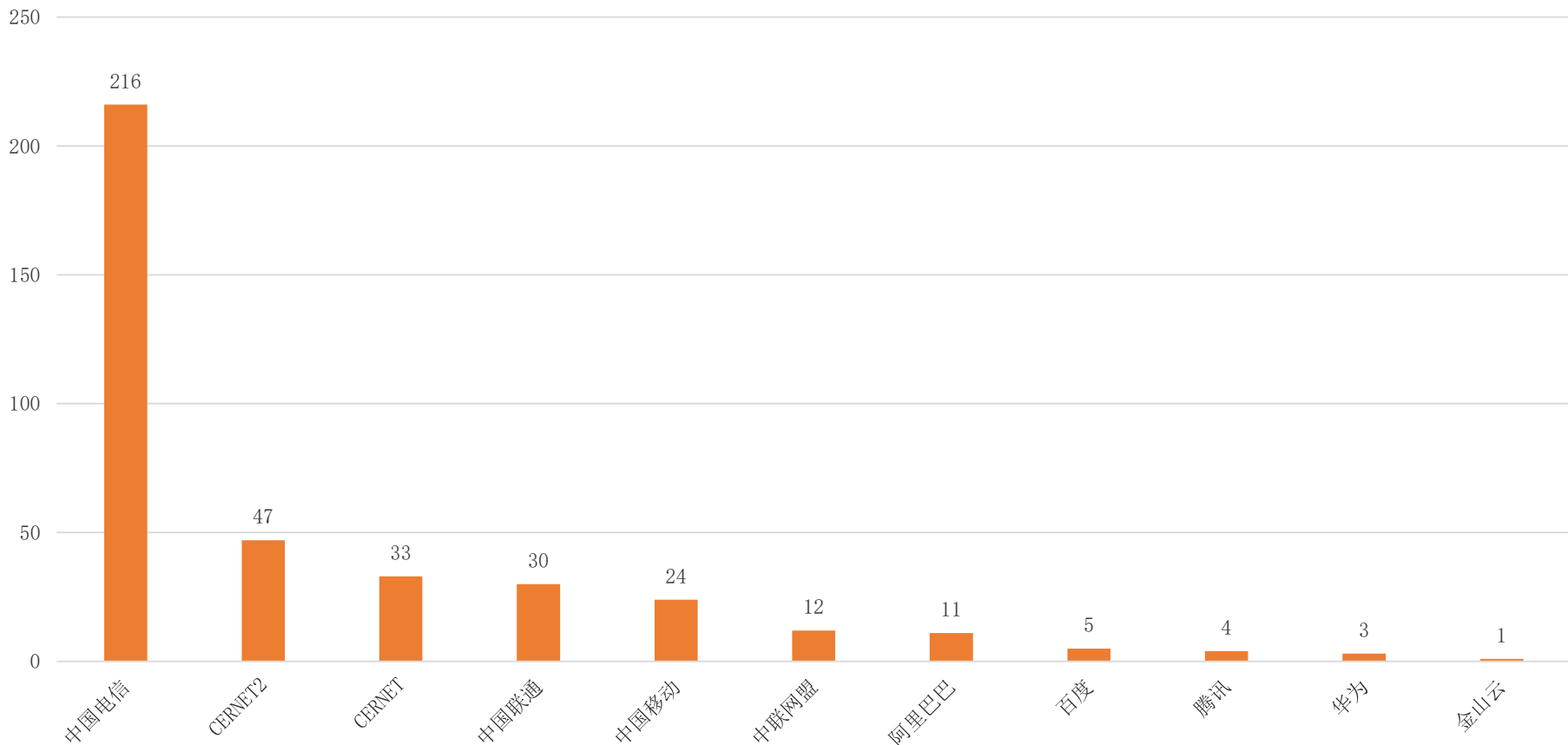


IPv6应用分布情况

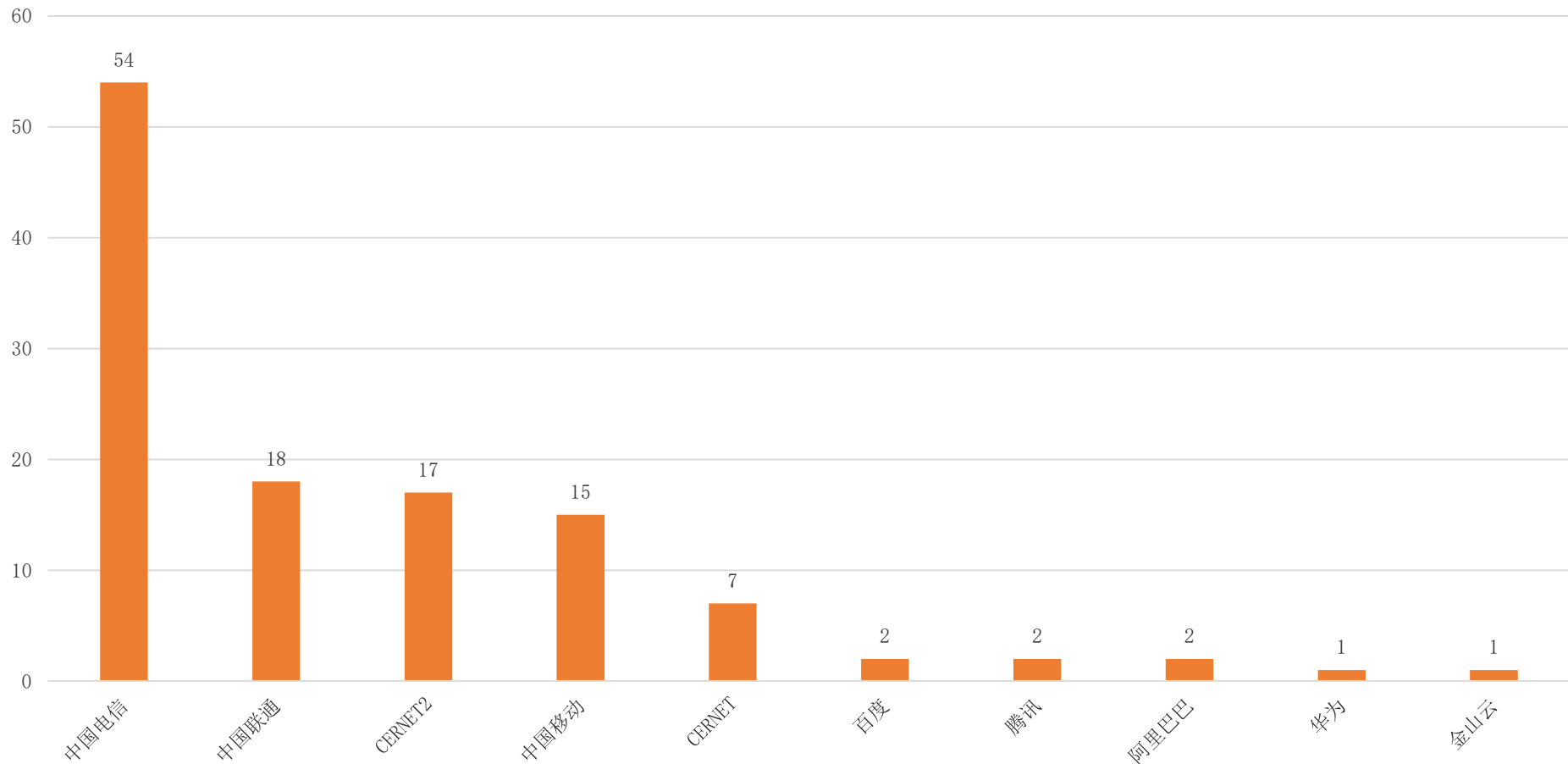
IPv6路由宣告情况 | 全球和国内路由情况概述

统计类型	全球		中国	
	IPv4	IPv6	IPv4	IPv6
路由条目	810903	79361	40821	4325
已分配自治区域	92837		1419	
可路由自治域	66693	18473	459	258
平均前缀长度	22.7	42.8	23	42
平均路径长度	4.9	3.8	--	--

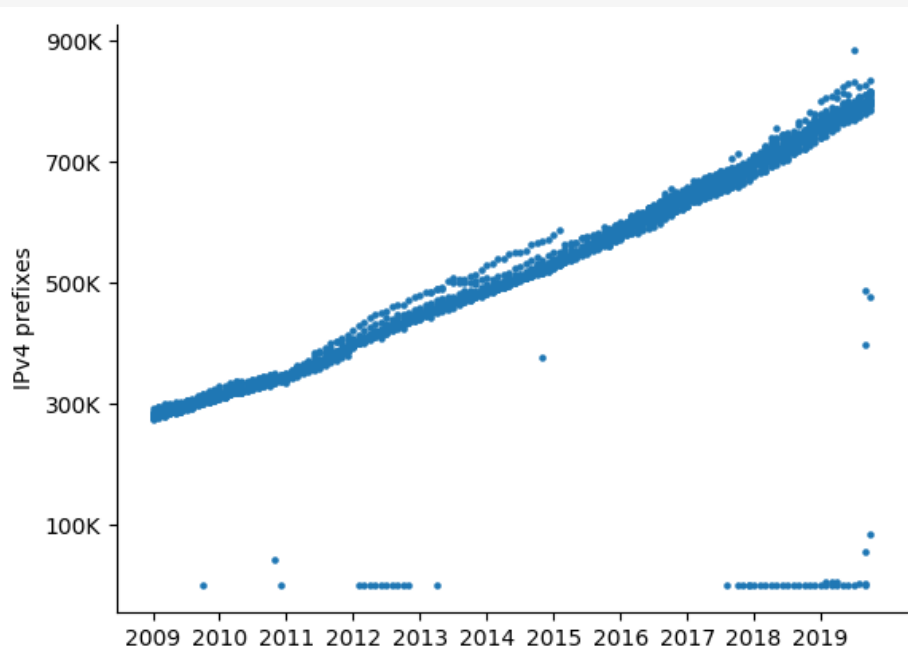
IPv6路由宣告情况 | 中国注册自治域按组织机构分布情况



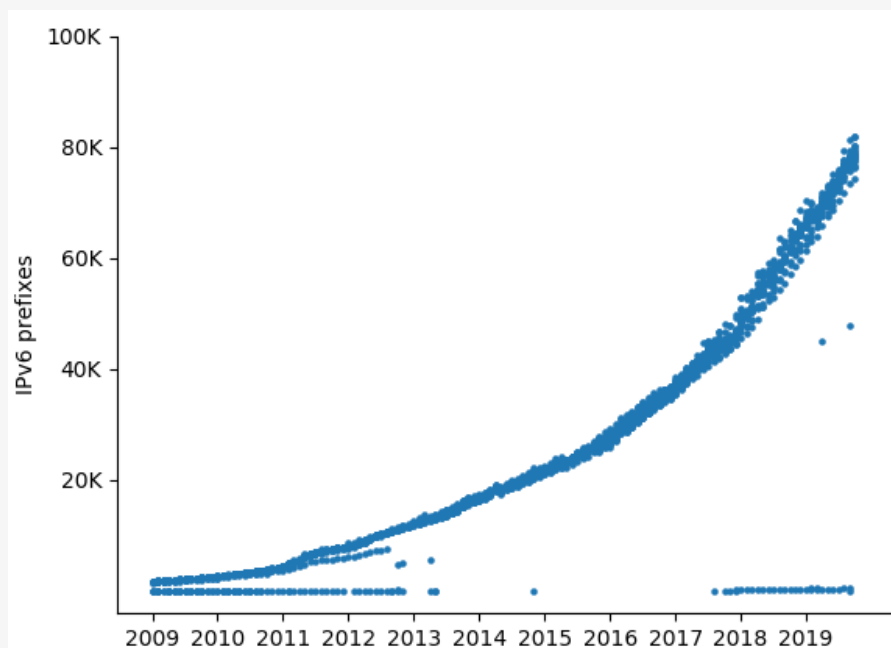
IPv6路由宣告情况 | 中国路由自治域按组织机构分布情况



IPv6路由宣告情况 | 全球IPv4和IPv6路由前缀增长趋势对比

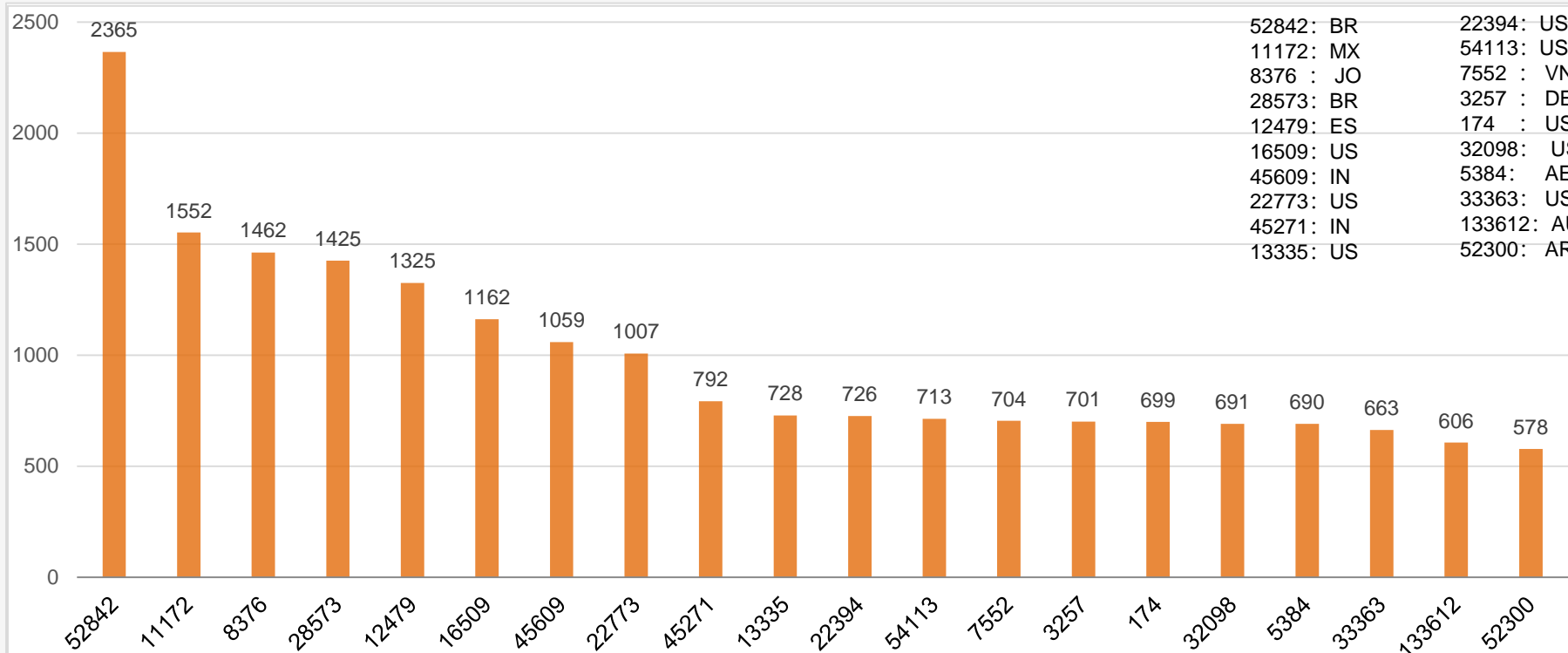


全球IPv4路由表增长情况



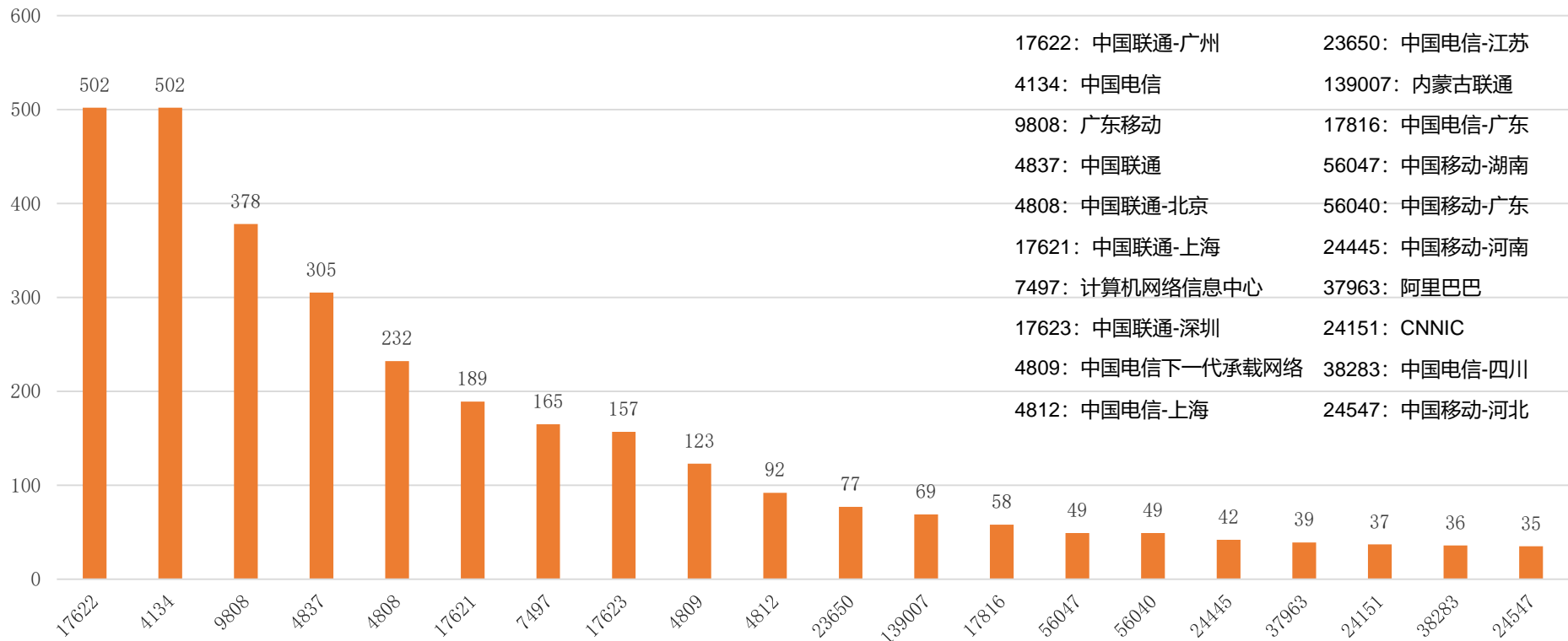
全球IPv6路由表增长情况

IPv6路由宣告情况 | 全球IPv6路由宣告按自治域排行 (路由条数)

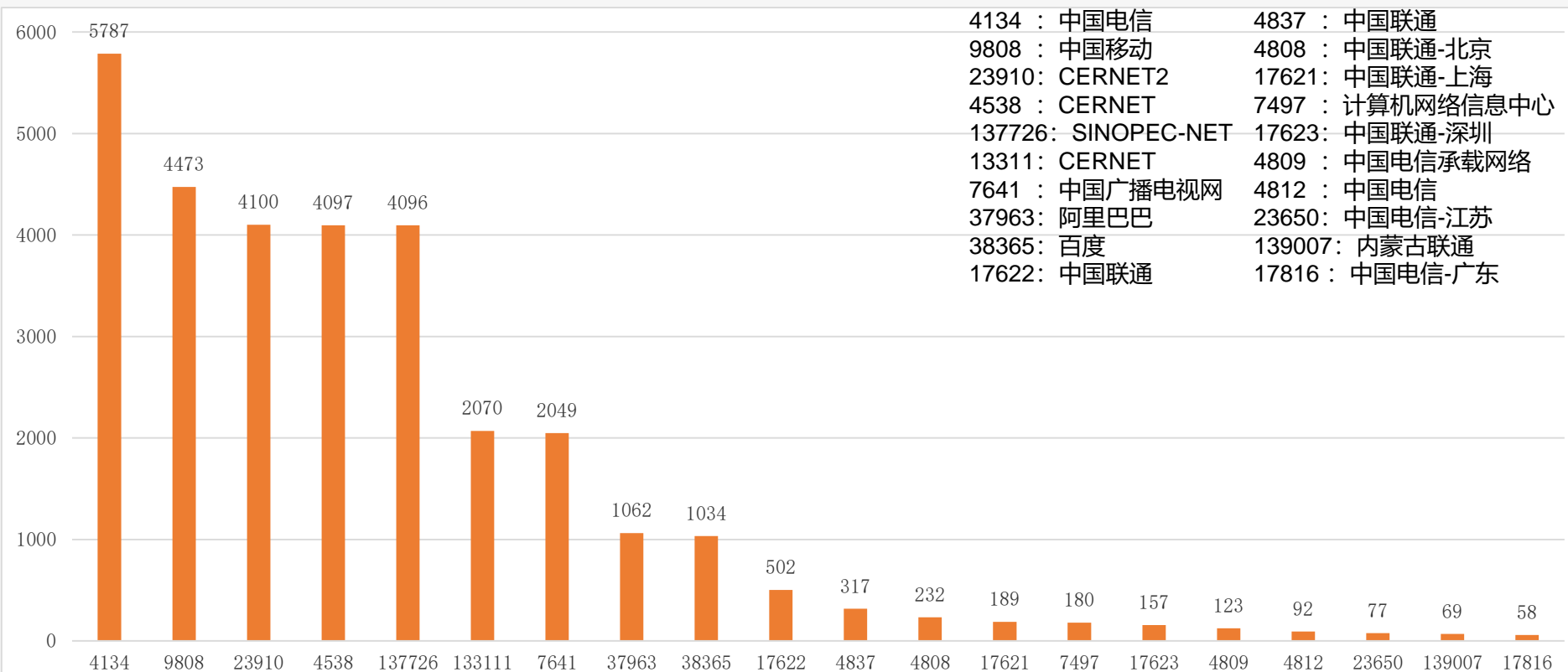


52842: BR	22394: US
11172: MX	54113: US
8376 : JO	7552 : VN
28573: BR	3257 : DE
12479: ES	174 : US
16509: US	32098: US
45609: IN	5384: AE
22773: US	33363: US
45271: IN	133612: AU
13335: US	52300: AR

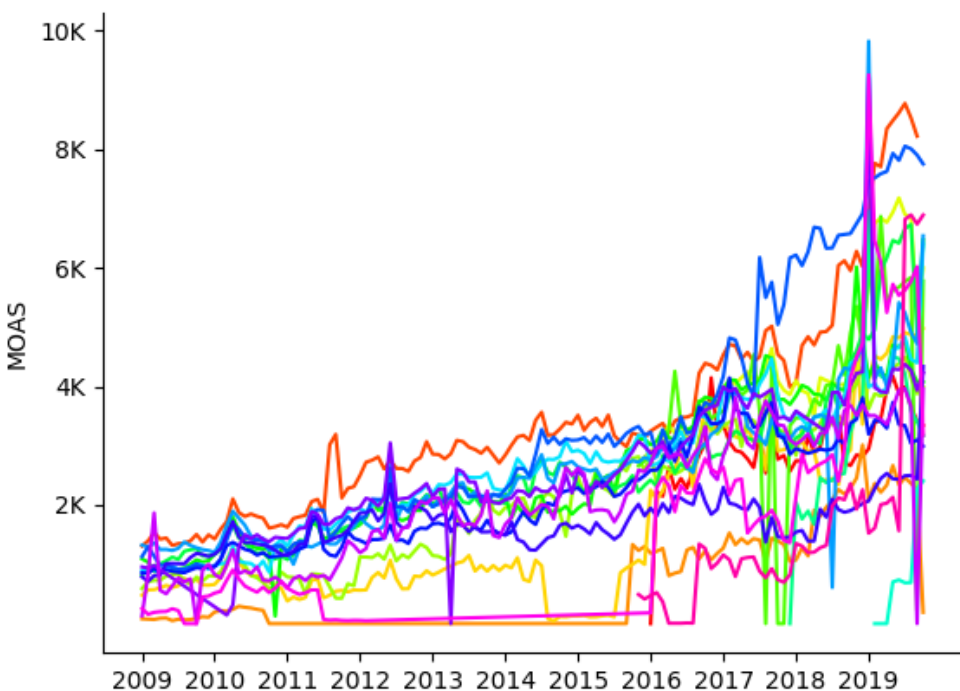
IPv6路由宣告情况 | 国内IPv6路由宣告情况按自治域排行 (路由条数)



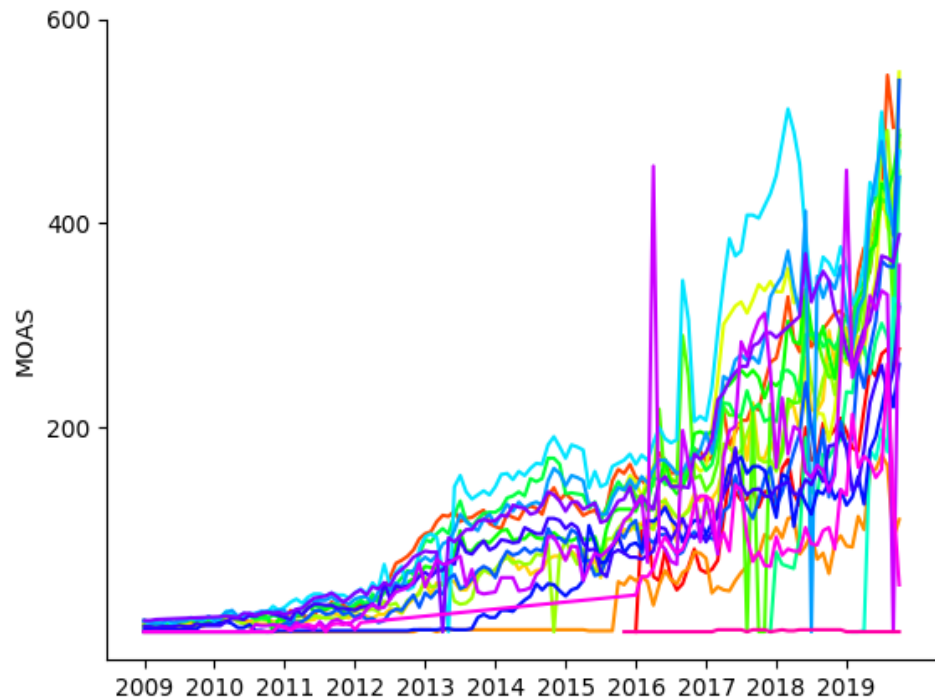
IPv6路由宣告情况 | 国内IPv6路由宣告情况按自治域排行 (路由数量/32)



IPv6路由宣告情况 | 近十年全球IPv4和IPv6 MOAS宣告情况对比



IPv4 MOAS 宣告情况



IPv6 MOAS 宣告情况

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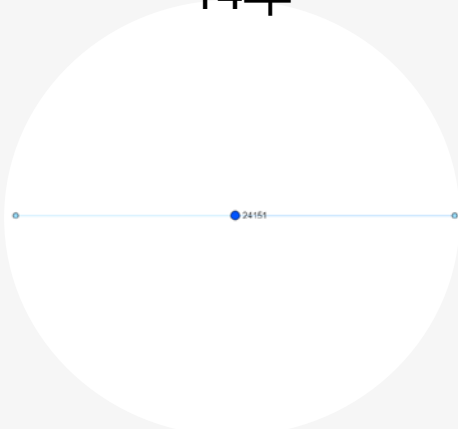
IPv6网络连通情况



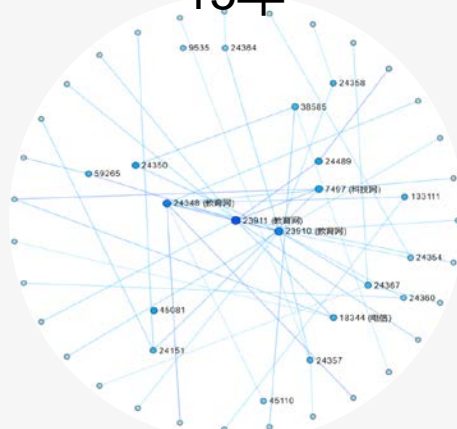
IPv6应用分布情况

IPv6网络连通情况 | 近几年国内IPv6网络连通发展情况

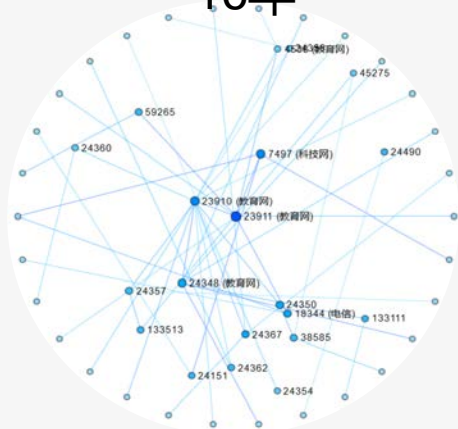
14年



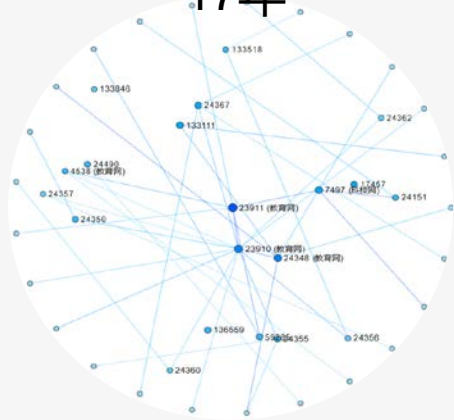
15年



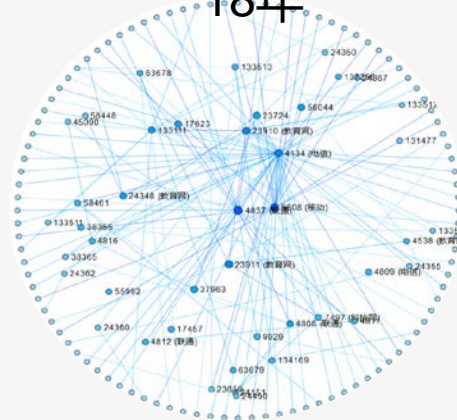
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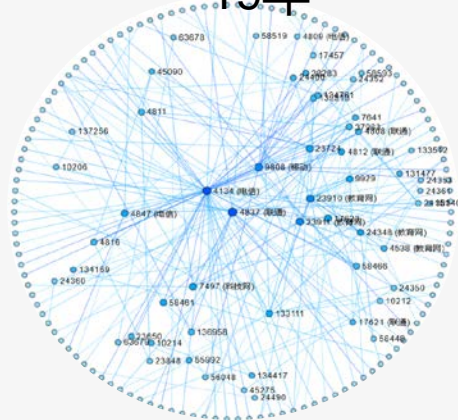
17年



18年

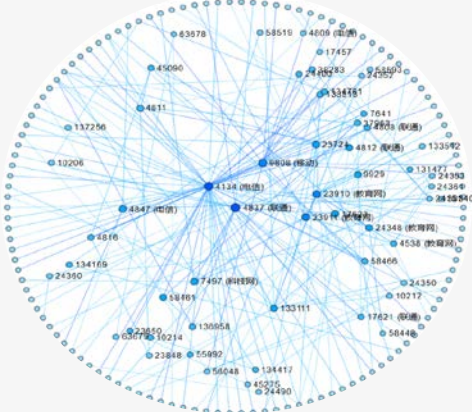


19年

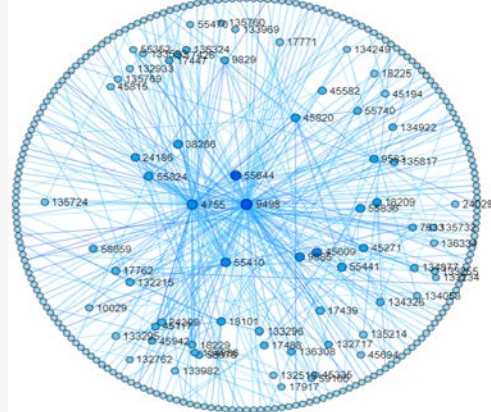


IPv6网络连通情况 | IPv6网络连通国家对比

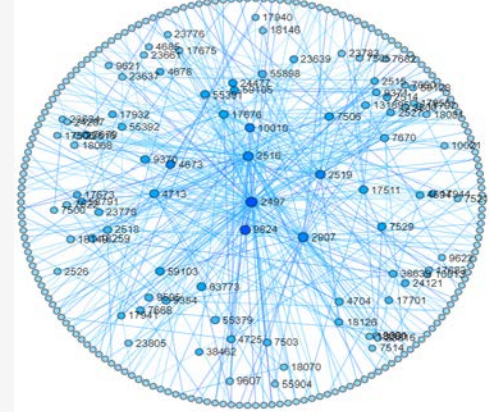
中国



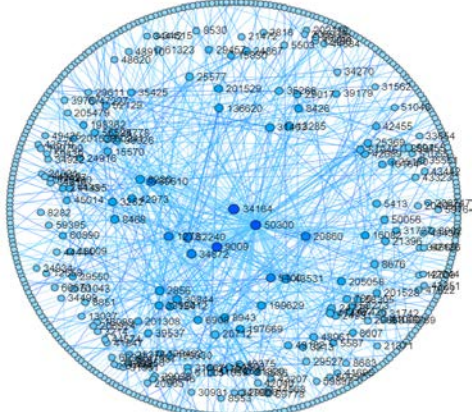
印度



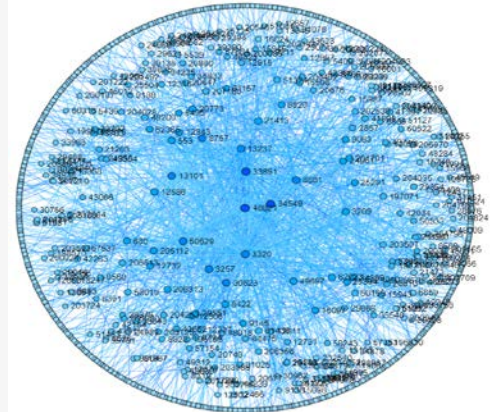
日本



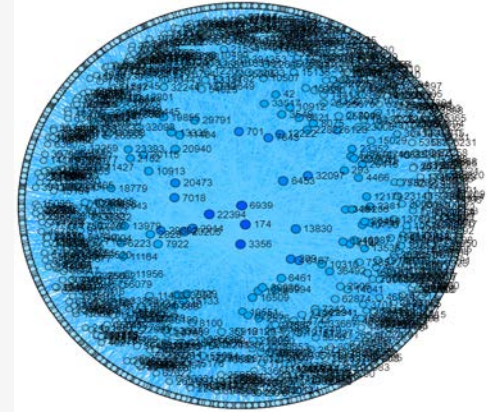
英国



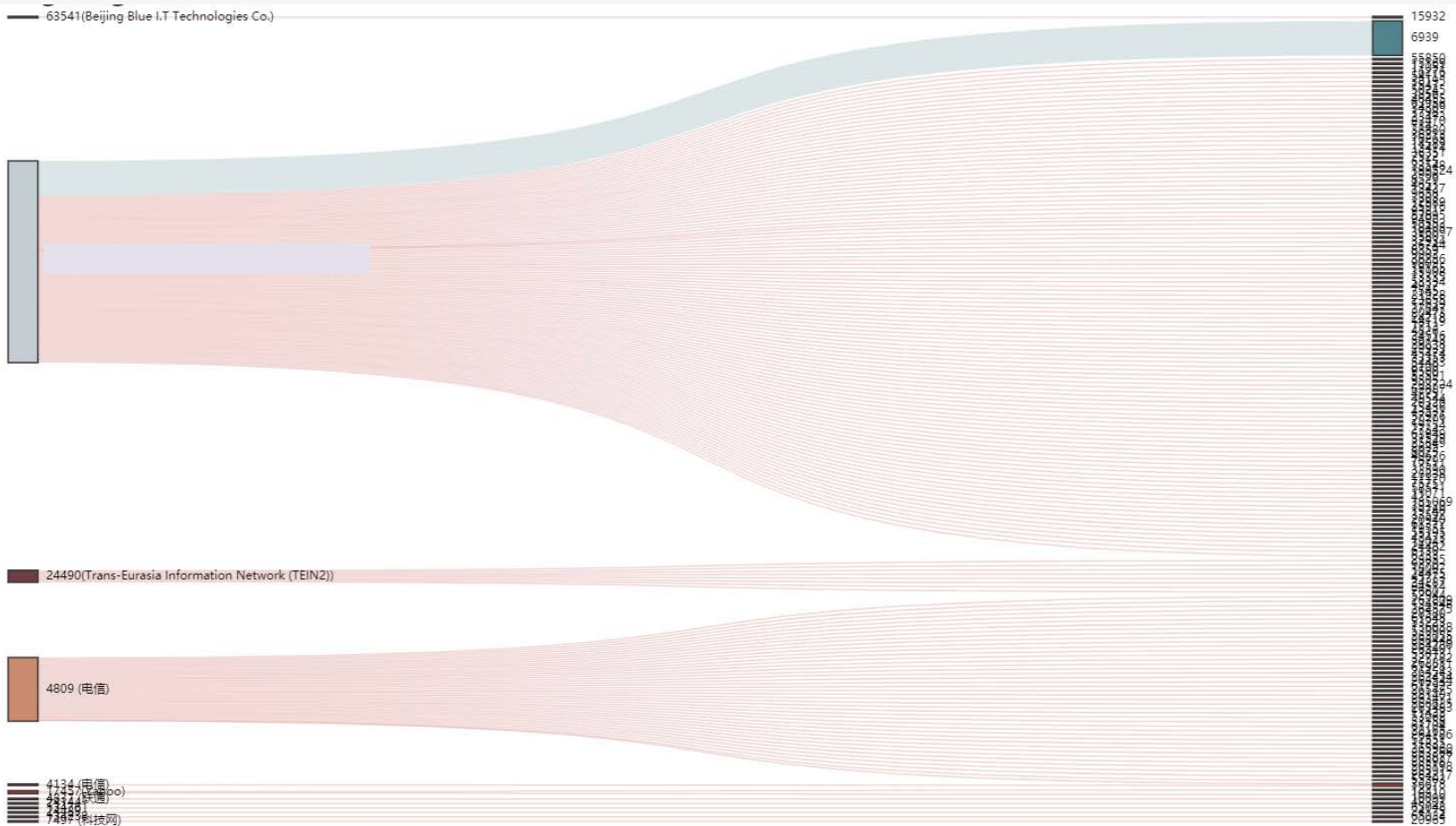
德国



美国



IPv6网络连通情况 | 国内AS与国外AS互通情况



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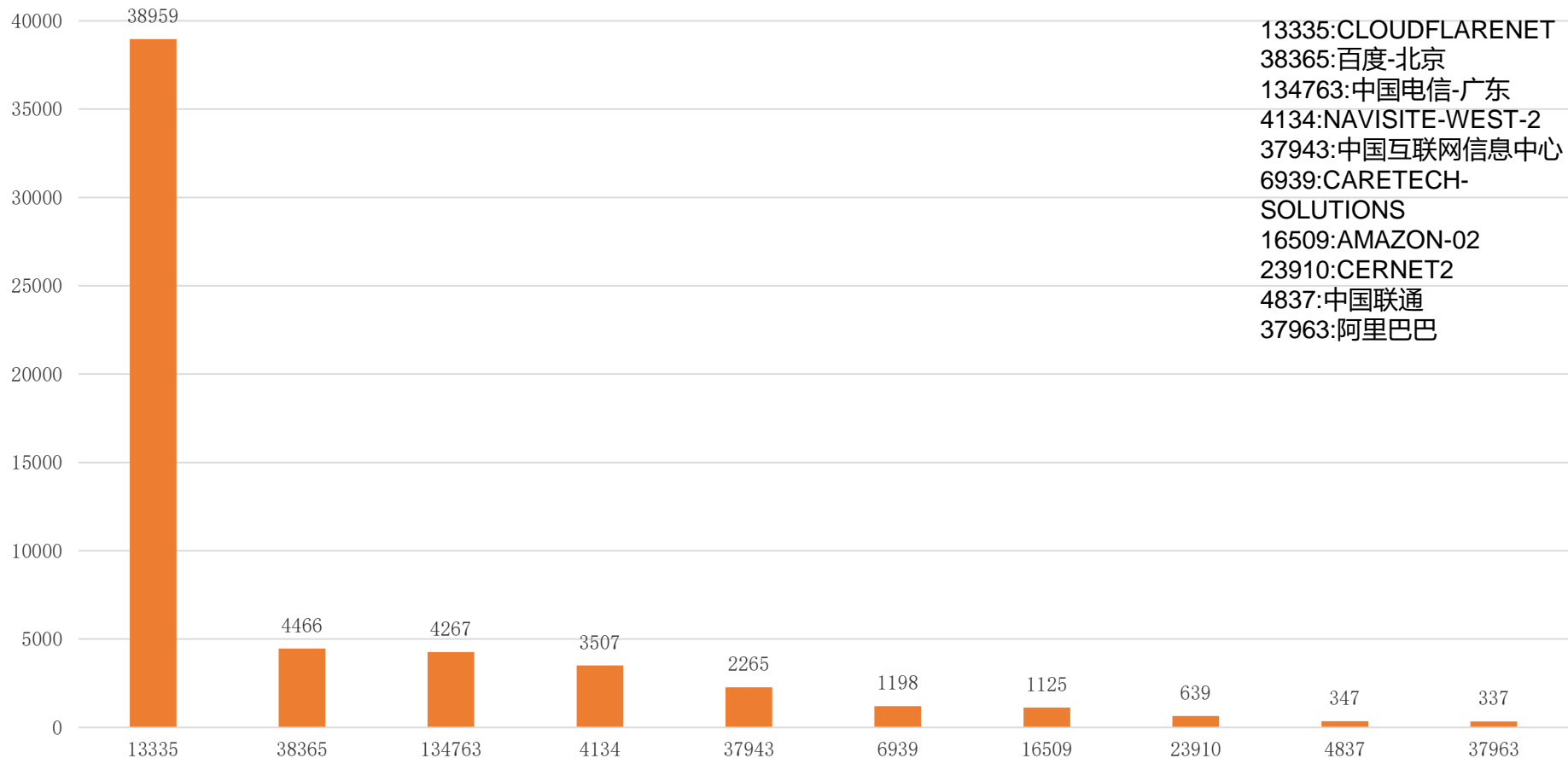


IPv6网络连通情况

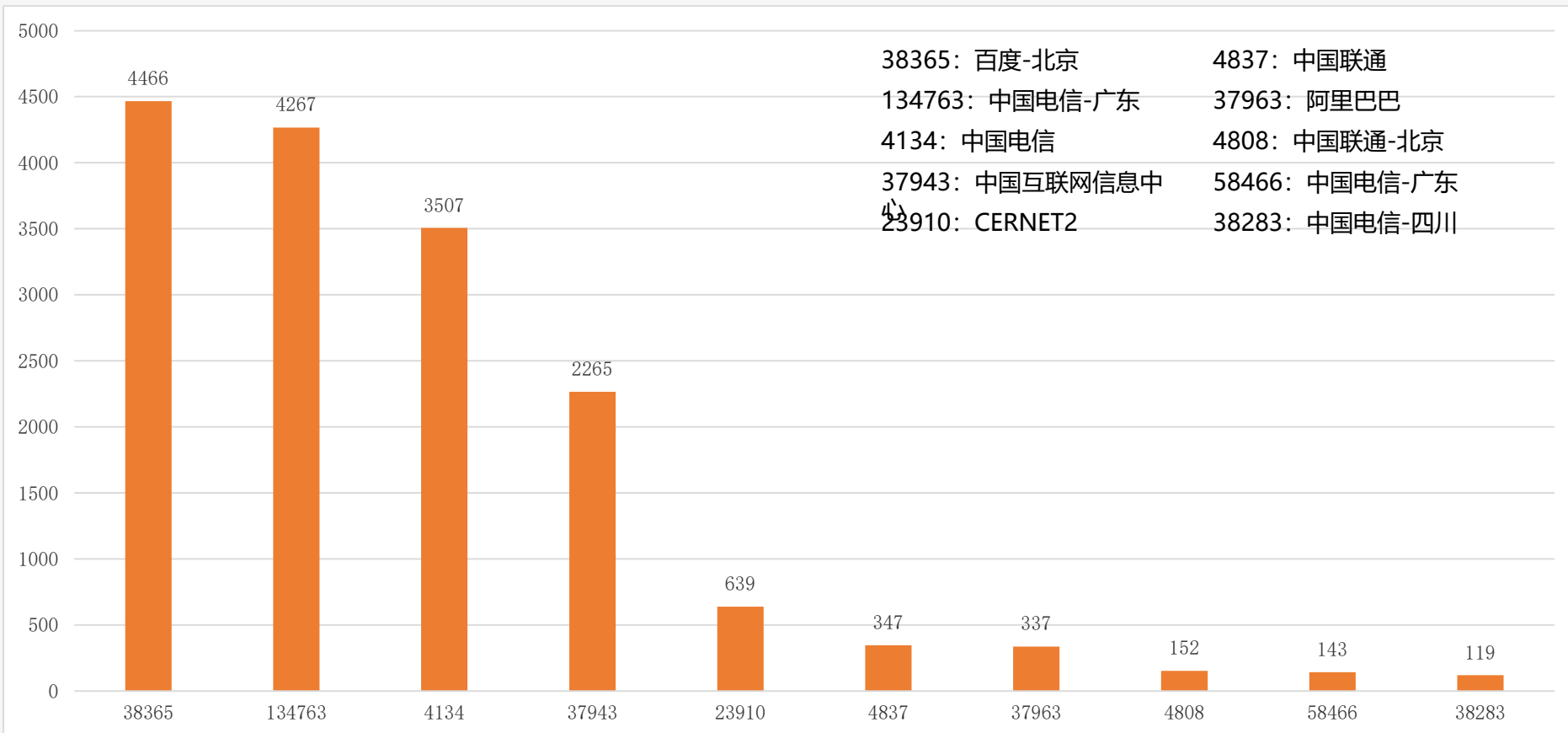


IPv6应用分布情况

IPv6应用分布情况 | 国内外IPv6网站全球自治域分布情况



IPv6地址分配情况 | 国内支持IPv6网站国内自治域分布情况



IPv6应用分布情况 | 全球TOP100万网站IPv4和IPv6自治域分布情况

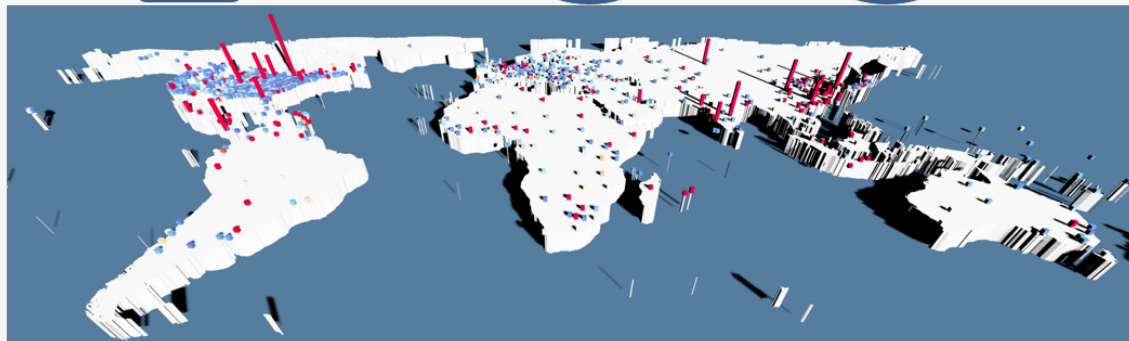
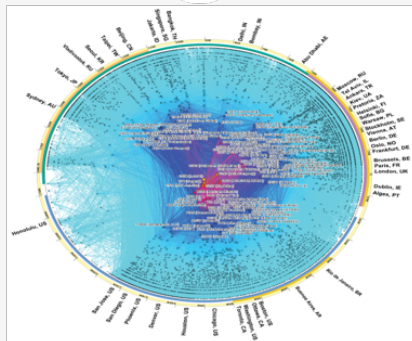
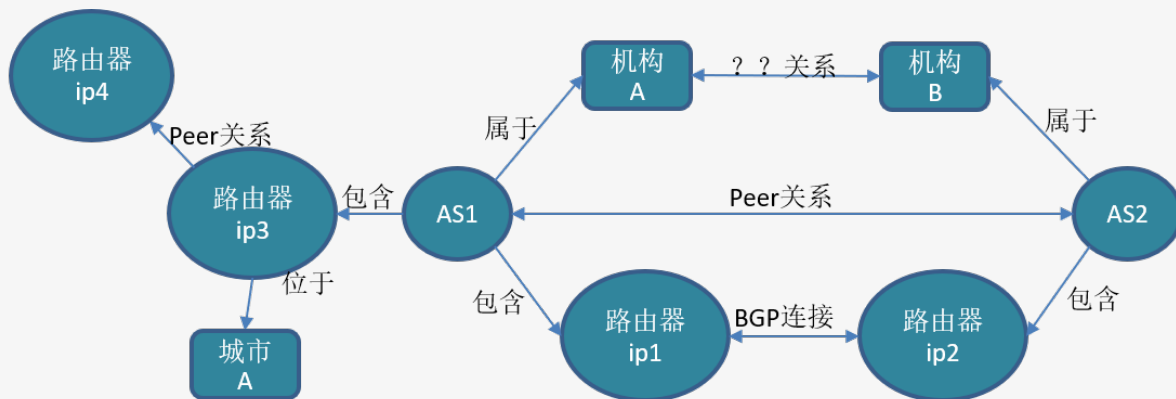
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AS 13335	CLOUDFLARENET	0.202
AS 15169	GOOGLE	0.061
AS 16509	AMAZON	0.060
AS 16276	OVH	0.031
AS 14618	AMAZON-AES	0.028
AS 26496	GO-DADDY	0.028
AS 24940	HETZNER	0.027
AS 46606	UNIFIEDLAYER-AS-1	0.022
AS 14061	DIGITALOCEAN-ASN	0.016
AS 53831	SQUARESPACE	0.015

IPv4网站分布情况

AS Number	AS Name	share
AS 13335	CLOUDFLARENET	0.729
AS 15169	GOOGLE	0.102
AS 16509	AMAZON	0.024
AS 8560	ONEANDONE-AS	0.014
AS 25532	MASTERHOST-AS	0.012
AS 54113	FASTLY	0.009
AS 9123	TimeWeb-AS	0.009
AS 24940	HETZNER	0.007
AS 16276	OVH	0.005
AS 200000	Ukraine-AS	0.005

IPv6网站分布情况

总结与展望 | AS Building 网络空间自治域资源知识谱系绘制



AS Building: 自治域系统拓扑连接向三维空间扩展, 并向地理空间映射, 直观展示AS的基础统计信息、网络拓扑、路由稳定性和安全性。

The image features a solid blue background. In the center, the word "THANKS" is written in a light blue, sans-serif font. This text is enclosed within a complex geometric shape formed by several overlapping, thin white lines that create a series of nested and intersecting triangles. The overall composition is minimalist and modern.

THANKS