

















	Core PoP IP		With Singletons	
Database	Null IP	Null PoP	Null IP	Null PoP
IPligence	3.9%	1.5%	2.9%	1.4%
IP2Location	0%	0%	0%	0%
MaxMind	36%	10.6%	30.1%	6%
HostIP.Info	64%	38.6%	64%	29%
GeoBytes	20.7%	4.3%	17.8%	2.7%
NetAcuity	0%	0%	0%	0%
Spotter	37%	18.1%		
DNS	14.3%	12.2%	28.4%	2%









Ground Truth evaluation								
 Using CAIDA's 25K "Ground Truth" IP addresses January-2010 database, based on DNS & ISP collaboration In the results, city range considered at 100km range 								
	Database	IP hits	Country Match	City Match				
	Geobytes	67.3%	80.1%	26.5% Iocated in				
	HostlP.Info	28.1%	89.0%	17.9% Washington DC				
	IP2Location	100%	76.0%	13.3%				
	IPligence	100%	76%	0.7%				
	Netacuity	67.9%	96.9%	79.1 20.5K wrongly				
	Spotter	54.1%		27.8 Washington DC				











Qwest as an example

- > 70 PoPs were discovered by the algorithm
- MaxMind assigned the PoPs to 55 different locations
- HostIP.Info assigned the PoPs to 46 different locations
- IP2Location assigned the PoPs to 35 different locations
- IPligence located the PoPs in only one distinct location;
 - All the PoPs were placed in Denver, where Qwest HQ are located.
 Out of 20291 Qwest entries in IPligence, 20252 are located in Denver.
- MaxMind had the same problem as IPligence in their May-2009 DB, but it was fixed in July-2009 DB.





