

Table 5:
Breakdown of GAM and DV360/Google Ads' Estimated Lines of Code
(including shared systems)
(selected systems; non-exhaustive)

Plaintiffs'
Demonstrative S
 1:23-cv-00108

System			GAM Lines of Code	DV360 and Google Ads Lines of Code
GAM Ad Serving			9.5 million	-
GAM Front End and Reporting			3.7 million	-
DV360			-	8.7 million
Google Ads ⁵⁴			-	5.5 million
Shared Ad Serving			22.2 million	
Selected Google-wide Systems (non-exhaustive)	Log Processing (e.g., Sawmill, ULS, Papermill, Napa)	64 million	128.5 million	
	Borg	9.1 million		
	Storage (e.g., Colossus, Spanner, F1)	49 million		
	Bigtable	3.4 million		
	Google Front End (GFE)	3 million		
Total			163.9 million	164.9 million

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Source: GOOG-AT-MDL-C-000101791 at -826-27

Table 6:
Estimated Years to Rewrite a Percentage of GAM's Estimated 163.9 Million Lines of Code
(selected systems; non-exhaustive)

Engineers	Percentage of Total Codebase to Rewrite			
	25%	50%	75%	100%
100	6.8 years	13.6 years	20.4 years	27.3 years
200	3.4 years	6.8 years	10.2 years	13.6 years
300	2.2 years	4.5 years	6.8 years	9.1 years
400	1.7 years	3.4 years	5.1 years	6.8 years
500	1.3 years	2.7 years	4 years	5.4 years
600	1.1 years	2.2 years	3.4 years	4.5 years
700	0.9 years	1.9 years	2.9 years	3.9 years
800	0.8 years	1.7 years	2.5 years	3.4 years
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