

## USING AntMonitor FOR CROWDSOURCING PASSIVE MOBILE NETWORK MEASUREMENTS



NETWORK PERFORMANCE MODULE IN AntMonitor									
<ul> <li>⇒AntMonitor [5], [6] monitors all packets</li> <li>1. Data Collection: <ul> <li>(a) Passively Monitor.</li> </ul> </li> </ul>	in/out of a mobile device:								
(b) Packets/Headers + Semantics/Context.									
(c) Granularity: Per Flow, Per App.									
(d) User Preferences.									
2. Deployment:									
(a) User-Space Mobile App.									
(b) Runs in the Background.									

(c) Incentives for the users.

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Exp #	1	2	3	4	5	6	7
AM: W=1	30.00	32.79	24.49	31.95	34.78	32.31	31.02
AM: W=5	21.24	29.26	22.83	27.01	30.75	26.84	26.14
Speedtest	19.96	28.42	22.39	28.74	31.66	26.98	27.22

	Metric	Data Overhead	Memory	CPU	Battery			
	Speedtest	50 MB	116 MB	14.7%	-0.5%			
	AntMonitor	0 MB	134MB	43.4%	-0.7%			
AC	esources I Itilization for AntMonitor and Speedtest							

## AntMonitor WEBPAGE

The AntMonitor Project: http://antmonitor.calit2.uci.edu



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