Table 1: Activati	on Properties	(out of 185 activities)
Property	# of Activities	Reasons
1. Exported	(%) 31 (16.8%)	2. Alternate entry (29) 3.2. Information (2)
		4.2. Disabled for all end-users (1) 6.1. Software (1)
2. Activation Location	185 (100%)	7. Environment (1) 8. Usage patterns (1)
Code GUI/lifecycle	149 (80.5%) 114 (61.6%)	1. Server (20)
		2. Alternate entry (15) 3.1. Equipment (12)
		<ul><li>3.2. Information (14)</li><li>4.1. Disabled for app version (26)</li><li>4.2. Disabled for all end-users (9)</li></ul>
		5. Error handling (11) 6.1. Software (9)
		6.2. Hardware (9) 7. Environment (7) 8. Usage patterns (3)
Other Android	25 (13.5%)	1. Server (13) 2. Alternate entry (1)
		<ul><li>3.2. Information (2)</li><li>4.1. Disabled for app version (1)</li><li>5. Error handling (9)</li></ul>
		6.1. Software (2) 6.2. Hardware (1)
App-specific	10 (5.4%)	7. Environment (1) 1. Server (9)
	36 (19.5%)	<ul><li>3.1. Equipment (1)</li><li>5. Error handling (1)</li><li>2. Alternate entry (34)</li></ul>
Manifest	30 (19.970)	3.1. Equipment (1) 3.2. Information (2)
		4.2. Disabled for all end-users (1) 6.1. Software (1)
3. Activation Guards Enforcement In Code	138 (74.6%) 138 (74.6%) 117 (63.2%)	1 Server (32)
in Code	111 (05.2%)	1. Server (32) 2. Alternate entry (12) 3.1. Equipment (13)
		<ul><li>3.2. Information (14)</li><li>4.1. Disabled for app version (15)</li></ul>
		<ul><li>4.2. Disabled for all end-users (5)</li><li>5. Error handling (20)</li><li>6.1. Software (11)</li></ul>
		6.2. Hardware (9) 7. Environment (7)
In Resources	21 (11.4%)	8. Usage patterns (3) 1. Server (39)
		2. Alternate entry (35) 3.1. Equipment (5) 3.2. Information (15)
		<ul><li>4.1. Disabled for app version (12)</li><li>4.2. Disabled for all end-users (2)</li></ul>
		5. Error handling (15) 6.1. Software (8) 6.2. Hardware (3)
		7. Environment (4) 8. Usage patterns (2)
Restriction Mandatory	138 (74.6%) 91 (49.2%)	1. Server (29)
		2. Alternate entry (14) 3.1. Equipment (10) 3.2. Information (12)
		4.1. Disabled for app version (9) 4.2. Disabled for all end-users (1)
		5. Error handling (15) 6.1. Software (7) 6.2. Hardware (5)
Discretionary	47 (25.4%)	7. Environment (5) 1. Server (6)
		3.1. Equipment (3) 3.2. Information (2)
		<ul><li>4.1. Disabled for app version (16)</li><li>4.2. Disabled for all end-users (9)</li><li>5. Error handling (5)</li></ul>
		6.1. Software (4) 6.2. Hardware (5)
4. Data	143 (77.3%)	7. Environment (3) 8. Usage patterns (3)
Type Parameters	143 (77.3%) 123 (66.5%)	1. Server (39)
		2. Alternate entry (35) 3.1. Equipment (5) 3.2. Information (15)
		<ul><li>4.1. Disabled for app version (12)</li><li>4.2. Disabled for all end-users (2)</li></ul>
		5. Error handling (15) 6.1. Software (8) 6.2. Hardware (3)
		7. Environment (4) 8. Usage patterns (2)
Execution Dependencies	52 (28.1%)	1. Server (10) 2. Alternate entry (12) 3.1. Equipment (11)
		<ul><li>3.2. Information (5)</li><li>4.1. Disabled for app version (5)</li></ul>
		<ul><li>4.2. Disabled for all end-users (2)</li><li>5. Error handling (11)</li></ul>
		6.1. Software (5) 6.2. Hardware (3) 7. Environment (2)
Format Primitive	143 (77.3%) 107 (57.8%)	1. Server (30)
		2. Alternate entry (29) 3.1. Equipment (8) 3.2. Information (14)
		4.1. Disabled for app version (13) 4.2. Disabled for all end-users (2)
		5. Error handling (14) 6.1. Software (7)
Strings	69 (37.3%)	6.2. Hardware (2) 7. Environment (5) 1. Server (23)
<u>u</u>	(3970)	2. Alternate entry (27) 3.1. Equipment (2)
		<ul><li>3.2. Information (6)</li><li>4.1. Disabled for app version (6)</li><li>4.2. Disabled for all end-users (2)</li></ul>
		4.2. Disabled for all end-users (2) 5. Error handling (5) 6.1. Software (6)
		6.2. Hardware (1) 7. Environment (4)
Objects	86 (46.5%)	1. Server (28) 2. Alternate entry (14) 3.1. Equipment (11)
		3.2. Information (8) 4.1. Disabled for app version (9)
		4.2. Disabled for all end-users (3) 5. Error handling (15)
		6.1. Software (5) 6.2. Hardware (4) 7. Environment (1)
		8. Usage patterns (2)