Application Metrics Reports

Metrics Aggregator (META) v1.0

CLIENT CONFIDENTIAL

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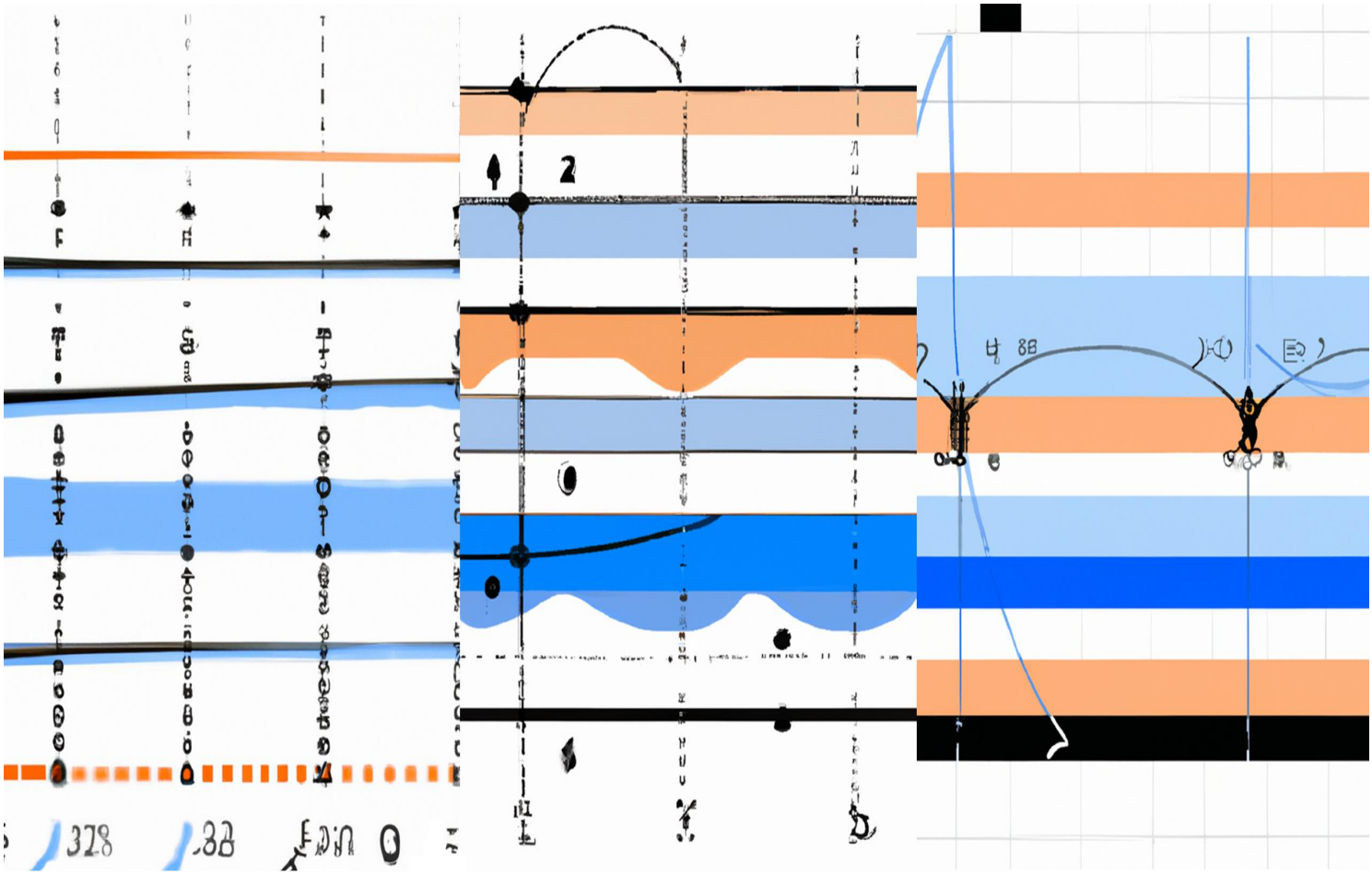

SIZE METRICS ordered by PROGRAM

```
  IDL: IDENTIFICATION DIVISION lines
+ EDL: ENVIRONMENT DIVISION lines       BL: blank lines           DL: dead lines
+ DDL: DATA DIVISION lines            + CL: comment lines       + LL: live lines
+ PDL: PROCEDURE DIVISION lines       + EL: executable lines    = EL: executable lines
=  SL: source lines                   = SL: source lines          LD: live density = LL/EL

BM: benchmark on SL = 0-1000 Small, 1001-2000 Medium, 2001-3000 Large, 3001+ Very Large
```

program	IDL	EDL	DDL	PDL	SL	BM	BL	CL	EL	DL	LL	LD
CBACT01C.CBL	25	9	55	124	213	S	15	41	157		157	100%
CBACT02C.CBL	25	9	49	109	192	S	15	41	136		136	100%
CBACT03C.CBL	25	9	46	109	189	S	15	40	134		134	100%
CBACT04C.CBL	24	34	199	473	730	S	47	88	595		595	100%
CBCUS01C.CBL	25	9	61	109	204	S	15	40	149		149	100%
CBSTM03A.CBL	35	6	315	663	1019	M	92	91	836	6	830	99%
CBSTM03B.CBL	27	28	58	117	230	S	42	26	162		162	100%
CBTRN01C.CBL	25	38	203	338	604	S	34	85	485		485	100%
CBTRN02C.CBL	25	38	215	539	817	S	53	94	670		670	100%
CBTRN03C.CBL	25	33	227	491	776	S	61	88	627		627	100%
COACTUPC.CBL	28	3	3221	5009	8261	VL	416	1673	6172	84	6088	99%
COACTVWC.CBL	28	3	1027	766	1824	M	112	354	1358	36	1322	97%
COADM01C.CBL	25	3	536	197	761	S	47	197	517		517	100%
COBIL00C.CBL	26	3	414	477	920	S	73	202	645		645	100%
COCRDLIC.CBL	32	3	1063	1248	2346	L	164	369	1813	1	1812	100%
COCRDSLC.CBL	29	3	717	726	1475	M	119	327	1029	60	969	94%
COCRDUPC.CBL	29	3	860	1280	2172	L	175	394	1603		1603	100%
COMEN01C.CBL	25	3	580	211	819	S	55	198	566		566	100%
CORPT00C.CBL	26	3	531	490	1050	M	88	175	787		787	100%
COSGN00C.CBL	25	3	375	191	594	S	39	171	384		384	100%
COTRN00C.CBL	25	3	968	608	1604	M	88	191	1325		1325	100%
COTRN01C.CBL	25	3	503	248	779	S	42	166	571		571	100%
COTRN02C.CBL	25	3	555	680	1263	M	84	208	971		971	100%
COUSR00C.CBL	25	3	976	601	1605	M	84	202	1319		1319	100%
COUSR01C.CBL	25	3	385	232	645	S	40	183	422		422	100%
COUSR02C.CBL	25	3	396	336	760	S	48	185	527		527	100%
COUSR03C.CBL	25	3	384	281	693	S	45	185	463		463	100%
CSUTLDTC.CBL	20		67	70	157	S	14	29	114		114	100%
sum	729	264	14986	16723	32702		2122	6043	24537	187	24350	
maximum	35	38	3221	5009	8261		416	1673	6172	84	6088	100%
median	25	3	390	406	778		50	179	583	0	583	100%
mean	26	9	535	597	1168		76	216	876	7	870	100%
minimum	20	0	46	70	157		14	26	114	0	114	94%
count	28											

SIZE METRICS ordered by BENCHMARK

```
  IDL: IDENTIFICATION DIVISION lines
+ EDL: ENVIRONMENT DIVISION lines       BL: blank lines           DL: dead lines
+ DDL: DATA DIVISION lines            + CL: comment lines       + LL: live lines
+ PDL: PROCEDURE DIVISION lines       + EL: executable lines    = EL: executable lines
=  SL: source lines                   = SL: source lines          LD: live density = LL/EL

BM: benchmark on SL = 0-1000 Small, 1001-2000 Medium, 2001-3000 Large, 3001+ Very Large
```

program	IDL	EDL	DDL	PDL	SL	BM	BL	CL	EL	DL	LL	LD
COACTUPC.CBL	28	3	3221	5009	8261	VL	416	1673	6172	84	6088	99%
COCRDLIC.CBL	32	3	1063	1248	2346	L	164	369	1813	1	1812	100%
COCRDUPC.CBL	29	3	860	1280	2172	L	175	394	1603		1603	100%
COACTVWC.CBL	28	3	1027	766	1824	M	112	354	1358	36	1322	97%
COUSR00C.CBL	25	3	976	601	1605	M	84	202	1319		1319	100%
COTRN00C.CBL	25	3	968	608	1604	M	88	191	1325		1325	100%
COCRDSLC.CBL	29	3	717	726	1475	M	119	327	1029	60	969	94%
COTRN02C.CBL	25	3	555	680	1263	M	84	208	971		971	100%
CORPT00C.CBL	26	3	531	490	1050	M	88	175	787		787	100%
CBSTM03A.CBL	35	6	315	663	1019	M	92	91	836	6	830	99%
COBIL00C.CBL	26	3	414	477	920	S	73	202	645		645	100%
COMEN01C.CBL	25	3	580	211	819	S	55	198	566		566	100%
CBTRN02C.CBL	25	38	215	539	817	S	53	94	670		670	100%
COTRN01C.CBL	25	3	503	248	779	S	42	166	571		571	100%
CBTRN03C.CBL	25	33	227	491	776	S	61	88	627		627	100%
COADM01C.CBL	25	3	536	197	761	S	47	197	517		517	100%
COUSR02C.CBL	25	3	396	336	760	S	48	185	527		527	100%
CBACT04C.CBL	24	34	199	473	730	S	47	88	595		595	100%
COUSR03C.CBL	25	3	384	281	693	S	45	185	463		463	100%
COUSR01C.CBL	25	3	385	232	645	S	40	183	422		422	100%
CBTRN01C.CBL	25	38	203	338	604	S	34	85	485		485	100%
COSGN00C.CBL	25	3	375	191	594	S	39	171	384		384	100%
CBSTM03B.CBL	27	28	58	117	230	S	42	26	162		162	100%
CBACT01C.CBL	25	9	55	124	213	S	15	41	157		157	100%
CBCUS01C.CBL	25	9	61	109	204	S	15	40	149		149	100%
CBACT02C.CBL	25	9	49	109	192	S	15	41	136		136	100%
CBACT03C.CBL	25	9	46	109	189	S	15	40	134		134	100%
CSUTLDTC.CBL	20		67	70	157	S	14	29	114		114	100%
sum	729	264	14986	16723	32702		2122	6043	24537	187	24350	
maximum	35	38	3221	5009	8261		416	1673	6172	84	6088	100%
median	25	3	390	406	778		50	179	583	0	583	100%
mean	26	9	535	597	1168		76	216	876	7	870	100%
minimum	20	0	46	70	157		14	26	114	0	114	94%
count	28											

ARCHITECTURE COMPLEXITY METRICS ordered by PROGRAM

```
    IO: input-output (READ, WRITE)        IFLW: inflows  (inbound  data)
+ MANI: manipulation (COMPUTE, MOVE)    + OFLW: outflows (outbound data)
+ CALL: CALL (& outline PERFORM)        + FANI: fan-in   (inbound  CALLs)
+  OSS: open source software            + FANO: fan-out  (outbound CALLs)
+  NET: internet (GET, POST, PUT)       =   EC: external complexity
=   IC: internal complexity                AC: architecture complexity = IC+EC

BM: benchmark on AC = 0-300 Low, 301-600 Moderate, 601-900 High, 901+ Very High
```

program	IO	MANI	CALL	OSS	NET	IC	IFLW	OFLW	FANI	FANO	EC	AC	BM
CBACT01C.COB	22	21	11			54				20	20	74	L
CBACT02C.COB	10	21	10			41				20	20	61	L
CBACT03C.COB	11	21	10			42				20	20	62	L
CBACT04C.COB	34	111	56			201	2			20	22	223	L
CBCUS01C.COB	11	21	10			42				20	20	62	L
CBSTM03A.COB	122	92	33			247		40		40	80	327	M
CBSTM03B.COB	4	6	4			14	2		20		22	36	L
CBTRN01C.COB	33	69	42			144				20	20	164	L
CBTRN02C.COB	35	136	61			232				20	20	252	L
CBTRN03C.COB	33	116	72			221				20	20	241	L
COACTUPC.COB	26	608	62			696				20	20	716	H
COACTVWC.COB	15	116	18			149						149	L
COADM01C.COB	7	47	10			64						64	L
COBIL00C.COB	24	104	38			166						166	L
COCRDLIC.COB	21	234	27			282						282	L
COCRDSLC.COB	11	89	19			119						119	L
COCRDUPC.COB	17	177	26			220						220	L
COMEN01C.COB	6	51	11			68						68	L
CORPT00C.COB	12	138	35			185		8		20	28	213	L
COSGN00C.COB	13	41	11			65						65	L
COTRN00C.COB	15	183	38			236						236	L
COTRN01C.COB	8	57	17			82						82	L
COTRN02C.COB	20	182	63			265		8		20	28	293	L
COUSR00C.COB	16	178	37			231						231	L
COUSR01C.COB	7	60	20			87						87	L
COUSR02C.COB	11	81	31			123						123	L
COUSR03C.COB	12	62	26			100						100	L
CSUTLDTC.COB		23	2			25	6	2			8	33	L
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sum	556	3045	800		0	4401	10	58	20	260	348	4749	
maximum	122	608	72	0%	0	696	6	40	20	40	80	716	
median	14	85	26	0%	0	134	0	0	0	0	4	136	
mean	20	109	29	0%	0	157	0	2	1	9	12	170	
minimum	0	6	2	0%	0	14	0	0	0	0	0	33	
count	28												

ARCHITECTURE COMPLEXITY METRICS ordered by BENCHMARK

```
    IO: input-output (READ, WRITE)        IFLW: inflows  (inbound  data)
+ MANI: manipulation (COMPUTE, MOVE)    + OFLW: outflows (outbound data)
+ CALL: CALL (& outline PERFORM)        + FANI: fan-in   (inbound  CALLs)
+  OSS: open source software            + FANO: fan-out  (outbound CALLs)
+  NET: internet (GET, POST, PUT)       =   EC: external complexity
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BM: benchmark on AC = 0-300 Low, 301-600 Moderate, 601-900 High, 901+ Very High
```

program	IO	MANI	CALL	OSS	NET	IC	IFLW	OFLW	FANI	FANO	EC	AC	BM
COACTUPC.COB	26	608	62			696				20	20	716	H
CBSTM03A.COB	122	92	33			247		40		40	80	327	M
COTRN02C.COB	20	182	63			265		8		20	28	293	L
COCRDLIC.COB	21	234	27			282						282	L
CBTRN02C.COB	35	136	61			232				20	20	252	L
CBTRN03C.COB	33	116	72			221				20	20	241	L
COTRN00C.COB	15	183	38			236						236	L
COUSR00C.COB	16	178	37			231						231	L
CBACT04C.COB	34	111	56			201	2			20	22	223	L
COCRDUPC.COB	17	177	26			220						220	L
CORPT00C.COB	12	138	35			185		8		20	28	213	L
COBIL00C.COB	24	104	38			166						166	L
CBTRN01C.COB	33	69	42			144				20	20	164	L
COACTVWC.COB	15	116	18			149						149	L
COUSR02C.COB	11	81	31			123						123	L
COCRDSLC.COB	11	89	19			119						119	L
COUSR03C.COB	12	62	26			100						100	L
COUSR01C.COB	7	60	20			87						87	L
COTRN01C.COB	8	57	17			82						82	L
CBACT01C.COB	22	21	11			54				20	20	74	L
COMEN01C.COB	6	51	11			68						68	L
COSGN00C.COB	13	41	11			65						65	L
COADM01C.COB	7	47	10			64						64	L
CBACT03C.COB	11	21	10			42				20	20	62	L
CBCUS01C.COB	11	21	10			42				20	20	62	L
CBACT02C.COB	10	21	10			41				20	20	61	L
CBSTM03B.COB	4	6	4			14	2		20		22	36	L
CSUTLDTC.COB		23	2			25	6	2			8	33	L
	---	----	----	---	---	----	----	----	----	----	---	----	
sum	556	3045	800		0	4401	10	58	20	260	348	4749	
maximum	122	608	72	0%	0	696	6	40	20	40	80	716	
median	14	85	26	0%	0	134	0	0	0	0	4	136	
mean	20	109	29	0%	0	157	0	2	1	9	12	170	
minimum	0	6	2	0%	0	14	0	0	0	0	0	33	
count	28												

CODE COMPLEXITY METRICS ordered by PROGRAM

PG: paragraphs CC: code complexity CCPP: CC/PG

BM: benchmark on CCPG = 0-10 Low, 11-20 Moderate, 21-50 High, 51+ Very High

program	PG	CC	CCPG	BM
CBACT01C.COB	6	16	3	L
CBACT02C.COB	5	16	3	L
CBACT03C.COB	5	16	3	L
CBACT04C.COB	22	57	3	L
CBCUS01C.COB	5	16	3	L
CBSTM03A.COB	25	67	3	L
CBSTM03B.COB	14	19	1	L
CBTRN01C.COB	18	45	2	L
CBTRN02C.COB	26	62	2	L
CBTRN03C.COB	26	54	2	L
COACTUPC.COB	97	735	8	L
COACTVWC.COB	32	99	3	L
COADM01C.COB	7	46	7	L
COBIL00C.COB	16	72	4	L
COCRDLIC.COB	41	156	4	L
COCRDSLC.COB	31	103	3	L
COCRDUPC.COB	47	234	5	L
COMEN01C.COB	7	50	7	L
CORPT00C.COB	10	103	10	L
COSGN00C.COB	6	29	5	L
COTRN00C.COB	16	146	9	L
COTRN01C.COB	9	32	4	L
COTRN02C.COB	18	138	8	L
COUSR00C.COB	16	149	9	L
COUSR01C.COB	9	35	4	L
COUSR02C.COB	11	61	6	L
COUSR03C.COB	11	44	4	L
CSUTLDTC.COB	2	11	6	L
	---	----	----	
sum	538	2611		
maximum	97	735	10	
median	15	56	4	
mean	19	93	5	
minimum	2	11	1	
count	28			

CODE COMPLEXITY METRICS ordered by BENCHMARK

PG: paragraphs CC: code complexity CCPP: CC/PG

BM: benchmark on CCPG = 0-10 Low, 11-20 Moderate, 21-50 High, 51+ Very High

program	PG	CC	CCPG	BM
CORPT00C.COB	10	103	10	L
COUSR00C.COB	16	149	9	L
COTRN00C.COB	16	146	9	L
COTRN02C.COB	18	138	8	L
COACTUPC.COB	97	735	8	L
COMEN01C.COB	7	50	7	L
COADM01C.COB	7	46	7	L
COUSR02C.COB	11	61	6	L
CSUTLDTC.COB	2	11	6	L
COCRDUPC.COB	47	234	5	L
COSGN00C.COB	6	29	5	L
COBIL00C.COB	16	72	4	L
COUSR03C.COB	11	44	4	L
COUSR01C.COB	9	35	4	L
COCRDLIC.COB	41	156	4	L
COTRN01C.COB	9	32	4	L
COCRDSLC.COB	31	103	3	L
CBACT02C.COB	5	16	3	L
CBACT03C.COB	5	16	3	L
CBCUS01C.COB	5	16	3	L
COACTVWC.COB	32	99	3	L
CBSTM03A.COB	25	67	3	L
CBACT01C.COB	6	16	3	L
CBACT04C.COB	22	57	3	L
CBTRN01C.COB	18	45	2	L
CBTRN02C.COB	26	62	2	L
CBTRN03C.COB	26	54	2	L
CBSTM03B.COB	14	19	1	L
	---	----	----	
sum	538	2611		
maximum	97	735	10	
median	15	56	4	
mean	19	93	5	
minimum	2	11	1	
count	28			

BUSINESS RULE COMPLEXITY METRICS ordered by PROGRAM

PG: paragraphs COV: coverage RL: rule lines
BR: business rules EXTR: extracted PDL: PROC DIV lines
RD: rule density = RL/PDL

BM: benchmark on RD = 0-40% Low, 41-70% Moderate, 71-100% High

program	PG	BR	COV	EXTR	RL	PDL	RD	BM
CBACT01C.COB	6	4	80%	57%	70	106	66%	M
CBACT02C.COB	5	3	80%	50%	55	91	60%	M
CBACT03C.COB	5	3	80%	50%	56	92	61%	M
CBACT04C.COB	22	11	80%	48%	240	417	58%	M
CBCUS01C.COB	5	3	80%	50%	56	92	61%	M
CBSTM03A.COB	25	11	80%	42%	416	562	74%	H
CBSTM03B.COB	14	3	80%	21%	42	89	47%	M
CBTRN01C.COB	18	11	80%	61%	201	309	65%	M
CBTRN02C.COB	26	12	80%	44%	250	479	52%	M
CBTRN03C.COB	26	11	80%	41%	211	435	49%	M
COACTUPC.COB	97	19	80%	20%	2198	3184	69%	M
COACTVWC.COB	32	7	80%	22%	337	533	63%	M
COADM01C.COB	7	3	80%	43%	82	140	59%	M
COBIL00C.COB	16	6	80%	38%	233	365	64%	M
COCRDLIC.COB	41	8	80%	20%	486	949	51%	M
COCRDSLC.COB	31	7	80%	23%	310	477	65%	M
COCRDUPC.COB	47	12	80%	26%	660	970	68%	M
COMEN01C.COB	7	3	80%	43%	96	154	62%	M
CORPT00C.COB	10	2	80%	20%	215	381	56%	M
COSGN00C.COB	6	3	80%	50%	95	141	67%	M
COTRN00C.COB	16	6	80%	38%	310	480	65%	M
COTRN01C.COB	9	4	80%	44%	138	188	73%	H
COTRN02C.COB	18	7	80%	39%	369	552	67%	M
COUSR00C.COB	16	6	80%	38%	305	475	64%	M
COUSR01C.COB	9	1	80%	11%	44	169	26%	L
COUSR02C.COB	11	5	80%	45%	189	262	72%	H
COUSR03C.COB	11	5	80%	45%	153	210	73%	H
CSUTLDTC.COB	2		80%			54		L
sum	538	176			7817	12356		
maximum	97	19	80%	61%	2198	3184	74%	
median	15	6	80%	42%	206	337	64%	
mean	19	6	80%	37%	279	441	59%	
minimum	2	0	80%	0%	0	54	0%	
count	28							

BUSINESS RULE COMPLEXITY METRICS ordered by BENCHMARK

PG: paragraphs COV: coverage RL: rule lines
BR: business rules EXTR: extracted PDL: PROC DIV lines
RD: rule density = RL/PDL

BM: benchmark on RD = 0-40% Low, 41-70% Moderate, 71-100% High

program	PG	BR	COV	EXTR	RL	PDL	RD	BM
CBSTM03A.COB	25	11	80%	42%	416	562	74%	H
COTRN01C.COB	9	4	80%	44%	138	188	73%	H
COUSR03C.COB	11	5	80%	45%	153	210	73%	H
COUSR02C.COB	11	5	80%	45%	189	262	72%	H
COACTUPC.COB	97	19	80%	20%	2198	3184	69%	M
COCRDUPC.COB	47	12	80%	26%	660	970	68%	M
COSGN00C.COB	6	3	80%	50%	95	141	67%	M
COTRN02C.COB	18	7	80%	39%	369	552	67%	M
CBACT01C.COB	6	4	80%	57%	70	106	66%	M
CBTRN01C.COB	18	11	80%	61%	201	309	65%	M
COCRDSLC.COB	31	7	80%	23%	310	477	65%	M
COTRN00C.COB	16	6	80%	38%	310	480	65%	M
COUSR00C.COB	16	6	80%	38%	305	475	64%	M
COBIL00C.COB	16	6	80%	38%	233	365	64%	M
COACTVWC.COB	32	7	80%	22%	337	533	63%	M
COMEN01C.COB	7	3	80%	43%	96	154	62%	M
CBACT03C.COB	5	3	80%	50%	56	92	61%	M
CBCUS01C.COB	5	3	80%	50%	56	92	61%	M
CBACT02C.COB	5	3	80%	50%	55	91	60%	M
COADM01C.COB	7	3	80%	43%	82	140	59%	M
CBACT04C.COB	22	11	80%	48%	240	417	58%	M
CORPT00C.COB	10	2	80%	20%	215	381	56%	M
CBTRN02C.COB	26	12	80%	44%	250	479	52%	M
COCRDLIC.COB	41	8	80%	20%	486	949	51%	M
CBTRN03C.COB	26	11	80%	41%	211	435	49%	M
CBSTM03B.COB	14	3	80%	21%	42	89	47%	M
COUSR01C.COB	9	1	80%	11%	44	169	26%	L
CSUTLDTC.COB	2		80%			54		L
sum	538	176			7817	12356		
maximum	97	19	80%	61%	2198	3184	74%	
median	15	6	80%	42%	206	337	64%	
mean	19	6	80%	37%	279	441	59%	
minimum	2	0	80%	0%	0	54	0%	
count	28							