

Appendix I

TIPSTER/MUC-5 INFORMATION EXTRACTION TEST SCORES

This appendix contains the summary score reports for each Tipster system on the Tipster/MUC-5 evaluation. The reports are ordered by language/domain (EJV, JJV, EME, JME) and secondarily by site (in alphabetical order).

Deeper investigation into system performance may be done on the basis of template-by-template score reports, which detail the performance of the system on each article in the test set. The template-by-template score reports are not included in this appendix.

A brief introduction to reading the score reports is presented here. Some information on the performance metrics may also be found in the paper, "Tipster/MUC-5 Information Extraction System Evaluation" by B. Sundheim in this volume. Further description of the score report and further definition and explanation of the scoring categories and performance metrics may be found in the MUC-5 proceedings volume in the paper titled "MUC-5 Evaluation Metrics" by N. Chinchor and B. Sundheim.

The first column in the report, SLOT, contains one of the following three types of label:

- A slot name, e.g., content
- An object name, e.g., <template>
- The word "subtotals"

Of the three types of rows, the one of primary interest is the one labeled with a slot name. The rows labeled with an object name may be disregarded. The rows containing subtotals may be of interest to those interested in performance on the various types of objects in the template.

The following tallies for the test set are presented in columns in the score reports:

| | |
|------------|--|
| POS | Number possible (= COR+PAR+INC+MIS), i.e., the number of fills a system should generate. This value is somewhat variable among systems because of alternative cardinalities of slot fills allowed for in the answer key. |
| ACT | Number "actual" (= COR+PAR+INC+SPU), i.e., the number of fills generated by the system under evaluation |
| COR | Number correct |
| PAR | Number partially correct |
| INC | Number incorrect |
| SPU | Number spurious |
| MIS | Number missing |
| NON | Number "noncommittal," i.e., number of null slot fills generated by system, where the fill is also null in the answer key |

The rightmost columns in the report contain the scores for the following extraction metrics:

| | | |
|------------|-------------------------|---|
| ERR | Error per response fill | = (.5PAR+INC+SPU+MIS)/(COR+PAR+INC+SPU+MIS) |
| UND | Undergeneration | = MIS/POS |
| OVG | Ovrgeneration | = SPU/ACT |
| SUB | Substitution | = (.5PAR+INC)/(COR+PAR+INC) |
| REC | Recall | = (COR+.5PAR)/POS |
| PRE | Precision | = (COR+.5PAR)/ACT |

None of the above metrics includes the NON scoring category in its computation. Readers who wish to consider noncommittal fills to be correct may revise the formulas by including NON in all denominators and in those numerators where COR appears. Note, however, that the high undergeneration scores obtained by most systems on many slots in the evaluation places in question the value of considering noncommittal fills to be correct.

The first two rows at the bottom of the report are the **ALL-OBJECTS** and **MATCHED-ONLY** rows. These offer two options in the way the **ERR**, **UND**, **OVG**, **SUB**, **REC**, and **PRE** scores are computed.

ALL-OBJECTS gives the official overall tallies and overall **ERR**, **UND**, **OVG**, **SUB**, **REC**, and **PRE** scores. The tallies in **POS**, **ACT**, **COR**, **PAR**, **INC**, **SPU**, **MIS**, and **NON** columns add up to the **ALL-OBJECTS** values, but not all rows are considered. The rows that are not considered are the object rows (i.e., those where the entry in the **SLOT** column is an object name), the subtotal rows (since they simply sum up the tallies for the scored slots in each object), and the following slot rows in the **<template>** object: **doc-nr**, **doc-date**, and **doc-source** (these appear only in the **EJV** and **JJV** full-template reports).

MATCHED-ONLY contains tallies and scores given a method of scoring that eliminates slot-fill penalties in the case where the system under evaluation failed to generate an expected object and in the case where it generated a spurious object. The tallies in the slot rows do *not* sum up to the totals contained in the **MATCHED-ONLY** row.

The scores for the metrics in the **ALL-OBJECTS** and **MATCHED-ONLY** rows are not computed by averaging the scores in the individual slot rows, but instead are computed on the basis of the tally totals contained in the **ALL-OBJECTS** or **MATCHED-ONLY** row.

The remaining rows at the bottom of the report contain scores for the following metrics:

| | |
|----------------------------------|---|
| TEXT-FILTERING | Text filtering (document detection) |
| RICHNESS-NORMALIZED-ERROR | Richness-normalized error (normalized version of error per response fill) |
| ERROR-RATE-PER-WORD | Error rate per word |
| F-MEASURES | F-measures (weighted combination of recall and precision) |

The formulation of each of the above metrics is described below.

Text-filtering scores are computed on the basis of relevant/nonrelevant decisions made by the system for the *text as a whole*, not on the basis of tallies in the slot rows. Some of the score category columns are used to contain the tallies for these decisions across the test set: **COR** (decides relevant and relevant is correct), **SPU** (decides relevant and nonrelevant is correct), **MIS** (decides nonrelevant and relevant is correct), and **NON** (decides nonrelevant and nonrelevant is correct). Text-filtering formulas are therefore as follows: **REC** = **COR**/**(COR+MIS)**; **PRE** = **COR**/**(COR+SPU)**; **UND** = **MIS**/**(COR+MIS)**; **OVG** = **SPU**/**(COR+SPU)**.

Two values of richness-normalized error are computed. The formulas are as follows: **Min-err** = **Wrong/All-fills**, **Max-err** = **Wrong/Req-fills**. There will be a range of fill counts from the minimum number of fills required (**Req-fills**) to the maximum number of fills allowed (**All-fills**), according to the answer key. These values are almost, but not quite, system-independent.

Error rate per word is computed as **Wrong/Word-count**. The scores for Japanese are not accurate.

F-measure scores corresponding to three different weightings of precision relative to recall are computed. The **P&R** value weights precision the same as recall; the **2P&R** value gives twice the weight to precision; the **P&2R** value weights precision half as much as recall. The general formula is $F = (\beta^2 + 1.0) \times P \times R / (\beta^2 \times P + R)$, where β is the weighting factor.

EJV Summary Scores
BBN PLUM System

1. Full-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|
| <template> | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-nr | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-date | 275 | 282 | 273 | 0 | 2 | 7 | 0 | 0 | 3 | 0 | 2 | 1 | 99 | 97 |
| doc-source | 276 | 213 | 207 | 0 | 0 | 6 | 69 | 0 | 26 | 25 | 3 | 0 | 75 | 97 |
| content | 348 | 331 | 253 | 0 | 10 | 68 | 85 | 6 | 39 | 24 | 20 | 4 | 73 | 76 |
| subtotals | 348 | 331 | 253 | 0 | 10 | 68 | 85 | 6 | 39 | 24 | 20 | 4 | 73 | 76 |
| <tie-up-relati | 348 | 330 | 253 | 0 | 10 | 67 | 85 | 0 | 39 | 24 | 20 | 4 | 73 | 77 |
| status | 348 | 330 | 210 | 0 | 53 | 67 | 85 | 0 | 49 | 24 | 20 | 20 | 60 | 64 |
| entity | 791 | 861 | 469 | 0 | 55 | 337 | 267 | 0 | 58 | 34 | 39 | 10 | 59 | 54 |
| joint-venture | 179 | 71 | 35 | 0 | 10 | 26 | 134 | 96 | 83 | 75 | 37 | 22 | 20 | 49 |
| ownership | 103 | 99 | 46 | 0 | 2 | 51 | 55 | 150 | 70 | 53 | 52 | 4 | 45 | 46 |
| activity | 387 | 226 | 115 | 0 | 17 | 94 | 255 | 17 | 76 | 66 | 42 | 13 | 30 | 51 |
| subtotals | 1808 | 1587 | 875 | 0 | 137 | 575 | 796 | 263 | 63 | 44 | 36 | 14 | 48 | 55 |
| <entity> | 977 | 831 | 646 | 0 | 51 | 134 | 280 | 0 | 42 | 29 | 16 | 7 | 66 | 78 |
| name | 873 | 737 | 459 | 30 | 111 | 137 | 273 | 17 | 53 | 31 | 18 | 21 | 54 | 64 |
| aliases | 359 | 347 | 231 | 5 | 8 | 103 | 115 | 321 | 49 | 32 | 30 | 4 | 65 | 67 |
| location | 323 | 95 | 47 | 10 | 10 | 28 | 256 | 444 | 85 | 79 | 29 | 22 | 16 | 55 |
| nationality | 265 | 158 | 82 | 0 | 3 | 73 | 180 | 437 | 76 | 68 | 46 | 4 | 31 | 52 |
| type | 977 | 831 | 605 | 0 | 92 | 134 | 280 | 0 | 46 | 29 | 16 | 13 | 62 | 73 |
| entity-rel | 1156 | 940 | 579 | 0 | 133 | 228 | 444 | 0 | 58 | 38 | 24 | 19 | 50 | 62 |
| person | 118 | 16 | 10 | 0 | 1 | 5 | 107 | 567 | 92 | 91 | 31 | 9 | 8 | 62 |
| facility | 83 | 20 | 3 | 0 | 2 | 15 | 78 | 598 | 97 | 94 | 75 | 40 | 4 | 15 |
| subtotals | 4154 | 3144 | 2016 | 45 | 360 | 723 | 1733 | 2384 | 58 | 42 | 23 | 16 | 49 | 65 |
| <entity-relati | 436 | 352 | 256 | 0 | 30 | 66 | 150 | 0 | 49 | 34 | 19 | 10 | 59 | 73 |
| entity1 | 883 | 891 | 464 | 0 | 81 | 346 | 338 | 0 | 62 | 38 | 39 | 15 | 52 | 52 |
| entity2 | 266 | 85 | 43 | 0 | 13 | 29 | 210 | 97 | 85 | 79 | 34 | 23 | 16 | 50 |
| rel-ent2-to-e | 436 | 352 | 178 | 0 | 108 | 66 | 150 | 0 | 64 | 34 | 19 | 38 | 41 | 50 |
| status | 431 | 352 | 195 | 0 | 90 | 67 | 146 | 0 | 61 | 34 | 19 | 32 | 45 | 55 |
| subtotals | 2016 | 1680 | 880 | 0 | 292 | 508 | 844 | 97 | 65 | 42 | 30 | 25 | 44 | 52 |
| <activity> | 386 | 213 | 135 | 0 | 17 | 61 | 234 | 0 | 70 | 61 | 29 | 11 | 35 | 63 |
| industry | 418 | 176 | 120 | 0 | 8 | 48 | 290 | 0 | 74 | 69 | 27 | 6 | 29 | 68 |
| site | 552 | 67 | 24 | 1 | 15 | 27 | 512 | 29 | 96 | 93 | 40 | 39 | 4 | 36 |
| start | 103 | 0 | 0 | 0 | 0 | 0 | 103 | 98 | 100 | 100 | * | * | 0 | * |
| end | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 128 | 100 | 100 | * | * | 0 | * |
| revenue | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 131 | 100 | 100 | * | * | 0 | * |
| subtotals | 1112 | 243 | 144 | 1 | 23 | 75 | 944 | 386 | 88 | 85 | 31 | 14 | 13 | 59 |
| <industry> | 412 | 176 | 127 | 0 | 11 | 38 | 274 | 0 | 72 | 66 | 22 | 8 | 31 | 72 |
| type | 381 | 174 | 106 | 0 | 26 | 42 | 249 | 0 | 75 | 65 | 24 | 20 | 28 | 61 |
| prod-serv | 809 | 176 | 67 | 14 | 57 | 38 | 671 | 27 | 91 | 83 | 22 | 46 | 9 | 42 |
| subtotals | 1190 | 350 | 173 | 14 | 83 | 80 | 920 | 27 | 86 | 77 | 23 | 33 | 15 | 51 |
| <facility> | 164 | 36 | 25 | 0 | 6 | 5 | 133 | 0 | 85 | 81 | 14 | 19 | 15 | 69 |
| name | 36 | 1 | 0 | 0 | 1 | 0 | 35 | 24 | 100 | 97 | 0 | 100 | 0 | 0 |
| location | 142 | 11 | 5 | 1 | 4 | 1 | 132 | 3 | 96 | 93 | 9 | 45 | 4 | 50 |
| type | 163 | 36 | 25 | 0 | 6 | 5 | 132 | 0 | 85 | 81 | 14 | 19 | 15 | 69 |
| subtotals | 341 | 48 | 30 | 1 | 11 | 6 | 299 | 27 | 91 | 88 | 12 | 27 | 9 | 64 |
| <person> | 118 | 15 | 11 | 0 | 1 | 3 | 106 | 0 | 91 | 90 | 20 | 29 | 7 | 57 |
| name | 118 | 15 | 8 | 1 | 3 | 3 | 106 | 0 | 93 | 90 | 20 | 25 | 17 | 62 |
| entity | 118 | 16 | 10 | 0 | 2 | 4 | 106 | 0 | 92 | 90 | 20 | 58 | 4 | 33 |
| position | 136 | 15 | 5 | 0 | 7 | 3 | 124 | 0 | 96 | 91 | 22 | 35 | 6 | 51 |
| subtotals | 372 | 46 | 23 | 1 | 12 | 10 | 336 | 0 | 94 | 90 | 48 | 32 | 4 | 50 |
| <ownership> | 103 | 78 | 51 | 0 | 2 | 25 | 50 | 0 | 60 | 48 | * | * | 0 | * |
| time | 22 | 0 | 0 | 0 | 0 | 0 | 22 | 45 | 100 | 100 | * | * | 0 | * |
| owned | 103 | 42 | 11 | 0 | 14 | 17 | 78 | 0 | 91 | 76 | 40 | 56 | 11 | 26 |
| capital | 28 | 24 | 20 | 1 | 0 | 3 | 7 | 28 | 34 | 25 | 12 | 2 | 73 | 85 |
| owner% | 376 | 171 | 78 | 4 | 30 | 59 | 264 | 3 | 82 | 70 | 34 | 28 | 21 | 47 |
| subtotals | 529 | 237 | 109 | 5 | 44 | 79 | 371 | 76 | 82 | 70 | 33 | 29 | 21 | 47 |
| <revenue> | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 100 | 100 | * | * | 0 | * |
| type | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 100 | 100 | * | * | 0 | * |
| total | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 100 | 100 | * | * | 0 | * |
| total-eta | 11 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 100 | 100 | * | * | 0 | * |
| rate | 8 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 100 | 100 | * | * | 0 | * |
| rate-eta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * | * | * | 0 | * |
| subtotals | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 100 | 100 | * | * | 0 | * |
| <time> | 149 | 0 | 0 | 0 | 0 | 0 | 149 | 0 | 100 | 100 | * | * | 0 | * |
| after | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| before | 27 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 100 | 100 | * | * | 0 | * |
| during | 91 | 0 | 0 | 0 | 0 | 0 | 91 | 0 | 100 | 100 | * | * | 0 | * |
| on | 19 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 153 | 0 | 0 | 0 | 0 | 0 | 153 | 0 | 100 | 100 | * | * | 0 | * |

| | | | | | | | | | | | | | | |
|---------------------------|-------|------|------|--------|----|------------|------|------------|----|---------|----|---------|----|----|
| ALL-OBJECTS | 12080 | 7666 | 4503 | 67 | 99 | 2124 | 6538 | 3266 | 68 | 54 | 28 | 18 | 38 | 59 |
| MATCHED-ONLY | 6940 | 6037 | 4503 | 67 | 99 | 803 | 1706 | 3266 | 41 | 24 | 13 | 13 | 65 | 75 |
| TEXT-FILTERING | 251 | 262 | 237 | - | - | 25 | 14 | 6 | - | 6 | 10 | - | 94 | 90 |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | | Req-fills | | All-fills | | Min-err | | Max-err | | |
| ERROR-RATE-PER-WORD | | | | 9667.5 | | 11803 | | 12128 | | 0.7971 | | 0.8191 | | |
| F-MEASURES | | | | Wrong | | Word-count | | Error-rate | | | | | | |
| | | | | 9667.5 | | 92862 | | 0.1041 | | | | | | |
| | | | | P&R | | 2P&R | | P&2R | | | | | | |
| | | | | 45.95 | | 53.07 | | 40.51 | | | | | | |

2. Core-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------|------|------|------|-------|-----|------------|------|------------|-----|-----|-----|-----|-----|-----|
| <template> | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 348 | 331 | 253 | 0 | 10 | 68 | 85 | 6 | 39 | 24 | 20 | 4 | 73 | 76 |
| subtotals | 348 | 331 | 253 | 0 | 10 | 68 | 85 | 6 | 39 | 24 | 20 | 4 | 73 | 76 |
| <tie-up-relati | 348 | 330 | 253 | 0 | 10 | 67 | 85 | 0 | 39 | 24 | 20 | 4 | 73 | 77 |
| status | 348 | 330 | 210 | 0 | 53 | 67 | 85 | 0 | 49 | 24 | 20 | 20 | 60 | 64 |
| entity | 791 | 861 | 468 | 0 | 56 | 337 | 267 | 0 | 58 | 34 | 39 | 11 | 59 | 54 |
| joint-venture | 179 | 71 | 35 | 0 | 10 | 26 | 134 | 96 | 83 | 75 | 37 | 22 | 20 | 49 |
| subtotals | 1318 | 1262 | 713 | 0 | 119 | 430 | 486 | 96 | 59 | 37 | 34 | 14 | 54 | 56 |
| <entity> | 977 | 831 | 645 | 0 | 52 | 134 | 280 | 0 | 42 | 29 | 16 | 7 | 66 | 78 |
| name | 873 | 737 | 459 | 30 | 111 | 137 | 273 | 17 | 53 | 31 | 18 | 21 | 54 | 64 |
| aliases | 359 | 347 | 230 | 4 | 9 | 104 | 116 | 319 | 50 | 32 | 30 | 4 | 65 | 67 |
| location | 323 | 95 | 47 | 10 | 10 | 28 | 256 | 445 | 85 | 79 | 29 | 22 | 16 | 55 |
| nationality | 265 | 158 | 82 | 0 | 4 | 72 | 179 | 436 | 76 | 68 | 46 | 5 | 31 | 52 |
| type | 977 | 831 | 604 | 0 | 93 | 134 | 280 | 0 | 46 | 29 | 16 | 13 | 62 | 73 |
| entity-rel | 1156 | 940 | 578 | 0 | 134 | 228 | 444 | 0 | 58 | 38 | 24 | 19 | 50 | 61 |
| subtotals | 3953 | 3108 | 2000 | 44 | 361 | 703 | 1548 | 1217 | 56 | 39 | 23 | 16 | 51 | 65 |
| <entity-relati | 436 | 352 | 256 | 0 | 30 | 66 | 150 | 0 | 49 | 34 | 19 | 10 | 59 | 73 |
| entity1 | 883 | 891 | 463 | 0 | 82 | 346 | 338 | 0 | 62 | 38 | 39 | 15 | 52 | 52 |
| entity2 | 266 | 85 | 43 | 0 | 13 | 29 | 210 | 97 | 85 | 79 | 34 | 23 | 16 | 50 |
| rel-ent2-to-e | 436 | 352 | 178 | 0 | 108 | 66 | 150 | 0 | 64 | 34 | 19 | 38 | 41 | 50 |
| status | 431 | 352 | 195 | 0 | 90 | 67 | 146 | 0 | 61 | 34 | 19 | 32 | 45 | 55 |
| subtotals | 2016 | 1680 | 879 | 0 | 293 | 508 | 844 | 97 | 65 | 42 | 30 | 25 | 44 | 52 |
| ALL-OBJECTS | 7635 | 6381 | 3845 | 44 | 94 | 1709 | 2963 | 1416 | 59 | 39 | 27 | 17 | 51 | 61 |
| MATCHED-ONLY | 5269 | 5078 | 3845 | 44 | 94 | 668 | 859 | 1416 | 35 | 16 | 13 | 12 | 73 | 76 |
| TEXT-FILTERING | 251 | 262 | 237 | - | - | 25 | 14 | 6 | - | 6 | 10 | - | 94 | 90 |
| ERROR-RATE-PER-WORD | | | | Wrong | | Word-count | | Error-rate | | | | | | |
| F-MEASURES | | | | 5477 | | 92862 | | 0.059 | | | | | | |
| | | | | P&R | | 2P&R | | P&2R | | | | | | |
| | | | | 55.18 | | 58.31 | | 52.37 | | | | | | |

EJV Summary Scores
GE/CMU Shogun System

1. Full-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|------|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|
| <template> | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-nr | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-date | 275 | 275 | 275 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-source | 276 | 282 | 276 | 0 | 0 | 6 | 94 | 53 | 11 | 35 | 15 | 24 | 2 | 83 |
| content | 348 | 389 | 289 | 0 | 6 | 94 | 53 | 11 | 35 | 15 | 24 | 2 | 83 | 74 |
| subtotals | 348 | 389 | 289 | 0 | 6 | 94 | 53 | 0 | 35 | 15 | 24 | 2 | 83 | 74 |
| <tie-up-relati | 348 | 389 | 289 | 0 | 6 | 94 | 53 | 0 | 48 | 15 | 24 | 22 | 66 | 59 |
| status | 348 | 389 | 231 | 0 | 64 | 94 | 53 | 0 | 51 | 20 | 33 | 15 | 68 | 57 |
| entity | 791 | 934 | 535 | 0 | 94 | 305 | 162 | 0 | 2 | 0 | 2 | 0 | 100 | 98 |
| joint-venture | 180 | 212 | 101 | 0 | 23 | 88 | 56 | 96 | 62 | 31 | 42 | 18 | 56 | 48 |
| ownership | 103 | 122 | 64 | 0 | 4 | 54 | 35 | 180 | 59 | 34 | 44 | 6 | 62 | 52 |
| activity | 387 | 367 | 214 | 0 | 44 | 109 | 129 | 10 | 57 | 33 | 30 | 17 | 55 | 58 |
| subtotals | 1809 | 2024 | 1145 | 0 | 229 | 650 | 435 | 286 | 53 | 24 | 32 | 17 | 63 | 56 |
| <entity> | 976 | 1057 | 749 | 0 | 61 | 247 | 166 | 0 | 39 | 17 | 23 | 8 | 77 | 71 |
| name | 872 | 937 | 554 | 44 | 115 | 224 | 159 | 27 | 47 | 18 | 24 | 19 | 66 | 61 |
| aliases | 359 | 389 | 232 | 6 | 5 | 146 | 116 | 399 | 53 | 32 | 38 | 3 | 65 | 60 |
| location | 322 | 338 | 140 | 19 | 23 | 156 | 140 | 443 | 69 | 43 | 46 | 18 | 46 | 44 |
| nationality | 265 | 212 | 100 | 0 | 11 | 101 | 154 | 509 | 73 | 58 | 48 | 10 | 38 | 47 |
| type | 976 | 1057 | 716 | 0 | 94 | 247 | 166 | 0 | 41 | 17 | 23 | 12 | 73 | 68 |
| entity-rel | 1153 | 1242 | 747 | 0 | 117 | 378 | 289 | 0 | 51 | 25 | 30 | 14 | 65 | 60 |
| person | 118 | 170 | 58 | 0 | 0 | 112 | 60 | 637 | 75 | 51 | 66 | 0 | 49 | 34 |
| facility | 84 | 192 | 37 | 0 | 10 | 145 | 37 | 650 | 84 | 44 | 76 | 21 | 44 | 19 |
| subtotals | 4149 | 4537 | 2584 | 69 | 375 | 1509 | 1121 | 2665 | 54 | 27 | 33 | 14 | 63 | 58 |
| <entity-relati | 437 | 436 | 311 | 0 | 24 | 101 | 102 | 0 | 42 | 23 | 23 | 7 | 71 | 71 |
| entity1 | 885 | 982 | 568 | 0 | 97 | 317 | 220 | 0 | 53 | 25 | 32 | 14 | 64 | 58 |
| entity2 | 268 | 260 | 128 | 0 | 32 | 100 | 108 | 93 | 65 | 40 | 38 | 20 | 48 | 49 |
| rel-ent2-to-e | 437 | 436 | 239 | 0 | 96 | 101 | 102 | 0 | 56 | 23 | 23 | 29 | 55 | 55 |
| status | 432 | 436 | 239 | 0 | 94 | 103 | 99 | 0 | 55 | 23 | 24 | 28 | 55 | 55 |
| subtotals | 2022 | 2114 | 1174 | 0 | 319 | 621 | 529 | 93 | 56 | 26 | 29 | 21 | 58 | 56 |
| <activity> | 387 | 366 | 262 | 0 | 20 | 84 | 105 | 0 | 44 | 27 | 23 | 7 | 68 | 72 |
| industry | 420 | 424 | 228 | 0 | 35 | 161 | 157 | 5 | 61 | 37 | 38 | 13 | 54 | 54 |
| site | 552 | 826 | 217 | 3 | 71 | 535 | 261 | 83 | 80 | 47 | 65 | 25 | 40 | 26 |
| start | 104 | 143 | 27 | 0 | 22 | 94 | 55 | 126 | 86 | 53 | 66 | 45 | 26 | 19 |
| end | 16 | 3 | 1 | 0 | 0 | 2 | 15 | 251 | 94 | 94 | 67 | 0 | 6 | 33 |
| revenue | 23 | 44 | 9 | 0 | 3 | 32 | 11 | 235 | 84 | 48 | 73 | 25 | 39 | 20 |
| subtotals | 1115 | 1440 | 482 | 3 | 131 | 824 | 499 | 700 | 75 | 45 | 57 | 22 | 43 | 34 |
| <industry> | 415 | 425 | 271 | 0 | 22 | 132 | 122 | 0 | 50 | 29 | 31 | 8 | 65 | 64 |
| type | 384 | 425 | 227 | 0 | 42 | 156 | 115 | 0 | 58 | 30 | 37 | 16 | 59 | 53 |
| prod-serv | 847 | 1193 | 287 | 54 | 220 | 632 | 286 | 1 | 79 | 34 | 53 | 44 | 37 | 26 |
| subtotals | 1231 | 1618 | 514 | 54 | 262 | 788 | 401 | 1 | 73 | 32 | 49 | 35 | 44 | 33 |
| <facility> | 164 | 280 | 104 | 0 | 19 | 157 | 41 | 0 | 68 | 25 | 56 | 15 | 63 | 37 |
| name | 36 | 0 | 0 | 0 | 0 | 0 | 36 | 91 | 100 | 100 | * | * | 0 | * |
| location | 142 | 180 | 41 | 10 | 28 | 101 | 63 | 8 | 81 | 44 | 56 | 42 | 32 | 26 |
| type | 163 | 280 | 91 | 0 | 30 | 159 | 42 | 0 | 72 | 26 | 57 | 25 | 56 | 32 |
| subtotals | 341 | 460 | 132 | 10 | 58 | 260 | 141 | 99 | 77 | 41 | 56 | 32 | 40 | 30 |
| <person> | 118 | 162 | 71 | 0 | 5 | 86 | 42 | 0 | 65 | 36 | 53 | 6 | 60 | 44 |
| name | 118 | 162 | 64 | 1 | 11 | 86 | 42 | 0 | 68 | 36 | 53 | 15 | 55 | 40 |
| entity | 118 | 162 | 54 | 0 | 22 | 86 | 42 | 0 | 74 | 36 | 53 | 29 | 46 | 33 |
| position | 136 | 162 | 42 | 0 | 33 | 87 | 61 | 0 | 81 | 45 | 54 | 44 | 31 | 26 |
| subtotals | 372 | 486 | 160 | 1 | 66 | 259 | 145 | 0 | 74 | 39 | 53 | 29 | 43 | 33 |
| <ownership> | 103 | 122 | 76 | 0 | 2 | 44 | 25 | 0 | 48 | 24 | 36 | 2 | 74 | 62 |
| time | 21 | 2 | 0 | 0 | 1 | 1 | 20 | 65 | 100 | 95 | 50 | 100 | 0 | 0 |
| owned | 103 | 123 | 38 | 0 | 39 | 46 | 26 | 0 | 74 | 25 | 37 | 51 | 37 | 31 |
| capital | 28 | 40 | 18 | 2 | 2 | 18 | 6 | 45 | 59 | 21 | 45 | 14 | 68 | 48 |
| owner% | 376 | 450 | 199 | 9 | 54 | 184 | 114 | 5 | 64 | 30 | 41 | 22 | 54 | 45 |
| subtotals | 528 | 615 | 255 | 11 | 96 | 249 | 166 | 115 | 66 | 31 | 40 | 28 | 43 | 42 |
| <revenue> | 23 | 37 | 10 | 0 | 4 | 23 | 9 | 0 | 78 | 39 | 62 | 36 | 39 | 24 |
| type | 23 | 37 | 9 | 0 | 5 | 23 | 9 | 0 | 80 | 39 | 62 | 36 | 39 | 24 |
| total | 15 | 30 | 5 | 1 | 2 | 22 | 7 | 4 | 85 | 47 | 73 | 31 | 37 | 18 |
| total-eta | 11 | 14 | 4 | 0 | 1 | 9 | 6 | 6 | 80 | 54 | 64 | 20 | 36 | 28 |
| rate | 8 | 7 | 4 | 0 | 1 | 2 | 3 | 6 | 60 | 38 | 28 | 20 | 50 | 57 |
| rate-eta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | * | * | * | * | * | * |
| subtotals | 57 | 88 | 22 | 1 | 9 | 56 | 25 | 26 | 80 | 44 | 64 | 30 | 39 | 26 |
| <time> | 149 | 137 | 36 | 0 | 31 | 70 | 82 | 0 | 84 | 55 | 51 | 46 | 24 | 26 |
| after | 16 | 13 | 0 | 0 | 3 | 10 | 13 | 0 | 100 | 81 | 77 | 100 | 0 | 0 |
| before | 27 | 23 | 6 | 0 | 1 | 16 | 20 | 0 | 86 | 74 | 70 | 14 | 22 | 26 |
| during | 91 | 74 | 25 | 0 | 7 | 42 | 59 | 0 | 81 | 65 | 57 | 22 | 27 | 34 |
| on | 19 | 32 | 5 | 0 | 0 | 27 | 14 | 0 | 89 | 74 | 84 | 0 | 26 | 16 |
| subtotals | 153 | 142 | 36 | 0 | 11 | 95 | 106 | 0 | 85 | 69 | 67 | 23 | 24 | 25 |

| | | | | | | | | | | | | | | |
|---------------------------|-------|-------|------|---------|-----|------------|------|------------|----|---------|----|---------|----|----|
| ALL-OBJECTS | 12125 | 13913 | 6793 | 149 | 124 | 5405 | 3621 | 3996 | 61 | 30 | 39 | 19 | 57 | 49 |
| MATCHED-ONLY | 9140 | 9729 | 6793 | 149 | 124 | 1624 | 1039 | 3996 | 36 | 11 | 17 | 15 | 75 | 70 |
| TEXT-FILTERING | 251 | 262 | 242 | - | - | 20 | 9 | 11 | - | 4 | 8 | - | 96 | 92 |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | | Req-fills | | All-fills | | Min-err | | Max-err | | |
| | | | | 10662.5 | | 11813 | | 12138 | | 0.8784 | | 0.9026 | | |
| ERROR-RATE-PER-WORD | | | | Wrong | | Word-count | | Error-rate | | | | | | |
| | | | | 10662.5 | | 92862 | | 0.1148 | | | | | | |
| F-MEASURES | | | | P&R | | 2P&R | | P&2R | | | | | | |
| | | | | 52.75 | | 50.66 | | 55.02 | | | | | | |

2. Core-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------|------|------|------|--------|-----|------------|------|------------|-----|-----|-----|-----|-----|-----|
| <template> | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 348 | 389 | 289 | 0 | 6 | 94 | 53 | 11 | 35 | 15 | 24 | 2 | 83 | 74 |
| subtotals | 348 | 389 | 289 | 0 | 6 | 94 | 53 | 11 | 35 | 15 | 24 | 2 | 83 | 74 |
| <tie-up-relati | 348 | 389 | 289 | 0 | 6 | 94 | 53 | 0 | 35 | 15 | 24 | 2 | 83 | 74 |
| status | 348 | 389 | 231 | 0 | 64 | 94 | 53 | 0 | 48 | 15 | 24 | 22 | 66 | 59 |
| entity | 791 | 934 | 535 | 0 | 94 | 305 | 162 | 0 | 51 | 20 | 33 | 15 | 68 | 57 |
| joint-venture | 180 | 212 | 101 | 0 | 23 | 88 | 56 | 96 | 62 | 31 | 42 | 18 | 56 | 48 |
| subtotals | 1319 | 1535 | 867 | 0 | 181 | 487 | 271 | 96 | 52 | 20 | 32 | 17 | 66 | 56 |
| <entity> | 976 | 1057 | 749 | 0 | 61 | 247 | 166 | 0 | 39 | 17 | 23 | 8 | 77 | 71 |
| name | 872 | 937 | 554 | 43 | 116 | 224 | 159 | 27 | 47 | 18 | 24 | 19 | 66 | 61 |
| aliases | 359 | 389 | 232 | 5 | 6 | 146 | 116 | 399 | 54 | 32 | 38 | 3 | 65 | 60 |
| location | 322 | 338 | 140 | 19 | 23 | 156 | 140 | 443 | 69 | 43 | 46 | 18 | 46 | 44 |
| nationality | 265 | 212 | 100 | 0 | 11 | 101 | 154 | 509 | 73 | 58 | 48 | 10 | 38 | 47 |
| type | 976 | 1057 | 716 | 0 | 94 | 247 | 166 | 0 | 41 | 17 | 23 | 12 | 73 | 68 |
| entity-rel | 1153 | 1242 | 747 | 0 | 117 | 378 | 289 | 0 | 51 | 25 | 30 | 14 | 65 | 60 |
| subtotals | 3947 | 4175 | 2489 | 67 | 367 | 1252 | 1024 | 1378 | 51 | 26 | 30 | 14 | 64 | 60 |
| <entity-relati | 437 | 436 | 311 | 0 | 24 | 101 | 102 | 0 | 42 | 23 | 23 | 7 | 71 | 71 |
| entity1 | 885 | 982 | 568 | 0 | 97 | 317 | 220 | 0 | 53 | 25 | 32 | 14 | 64 | 58 |
| entity2 | 268 | 260 | 128 | 0 | 32 | 100 | 108 | 93 | 65 | 40 | 38 | 20 | 48 | 49 |
| rel-ent2-to-e | 437 | 436 | 239 | 0 | 96 | 101 | 102 | 0 | 56 | 23 | 23 | 29 | 55 | 55 |
| status | 432 | 436 | 239 | 0 | 94 | 103 | 99 | 0 | 55 | 23 | 24 | 28 | 55 | 55 |
| subtotals | 2022 | 2114 | 1174 | 0 | 319 | 621 | 529 | 93 | 56 | 26 | 29 | 21 | 58 | 56 |
| ALL-OBJECTS | 7636 | 8213 | 4819 | 67 | 96 | 2454 | 1877 | 1578 | 52 | 24 | 30 | 16 | 64 | 59 |
| MATCHED-ONLY | 6041 | 6122 | 4819 | 67 | 96 | 627 | 546 | 1578 | 27 | 9 | 10 | 12 | 80 | 79 |
| TEXT-FILTERING | 251 | 262 | 242 | - | - | 20 | 9 | 11 | - | 4 | 8 | - | 96 | 92 |
| ERROR-RATE-PER-WORD | | | | Wrong | | Word-count | | Error-rate | | | | | | |
| | | | | 5237.5 | | 92862 | | 0.0564 | | | | | | |
| F-MEASURES | | | | P&R | | 2P&R | | P&2R | | | | | | |
| | | | | 61.23 | | 59.93 | | 62.6 | | | | | | |

EJV Summary Scores
NMSU/Brandeis Diderot System

1. Full-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|
| <template> | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-nr | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-date | 275 | 205 | 204 | 0 | 1 | 0 | 70 | 7 | 26 | 25 | 0 | 0 | 74 | 100 |
| doc-source | 276 | 282 | 276 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 0 | 100 | 98 |
| content | 348 | 275 | 189 | 0 | 30 | 56 | 129 | 15 | 53 | 37 | 20 | 14 | 54 | 69 |
| subtotals | 348 | 275 | 189 | 0 | 30 | 56 | 129 | 15 | 53 | 37 | 20 | 14 | 54 | 69 |
| <tie-up-relati | 348 | 275 | 189 | 0 | 30 | 56 | 129 | 0 | 53 | 37 | 20 | 14 | 54 | 69 |
| status | 348 | 275 | 156 | 0 | 63 | 56 | 129 | 0 | 61 | 37 | 20 | 29 | 45 | 57 |
| entity | 791 | 419 | 252 | 0 | 80 | 87 | 459 | 0 | 71 | 58 | 21 | 24 | 32 | 60 |
| joint-venture | 179 | 59 | 20 | 0 | 13 | 26 | 146 | 74 | 90 | 82 | 44 | 39 | 11 | 34 |
| ownership | 103 | 27 | 15 | 0 | 5 | 7 | 83 | 123 | 86 | 80 | 26 | 25 | 14 | 56 |
| activity | 387 | 136 | 75 | 0 | 33 | 28 | 279 | 6 | 82 | 72 | 20 | 30 | 19 | 55 |
| subtotals | 1808 | 916 | 518 | 0 | 194 | 204 | 1096 | 203 | 74 | 61 | 22 | 27 | 29 | 56 |
| <entity> | 975 | 490 | 381 | 0 | 50 | 59 | 544 | 0 | 63 | 56 | 12 | 12 | 39 | 78 |
| name | 873 | 452 | 258 | 34 | 95 | 65 | 486 | 7 | 71 | 56 | 14 | 29 | 32 | 61 |
| aliases | 359 | 216 | 136 | 2 | 6 | 72 | 215 | 165 | 68 | 60 | 33 | 5 | 38 | 63 |
| location | 323 | 179 | 27 | 11 | 23 | 118 | 262 | 181 | 93 | 81 | 66 | 47 | 10 | 18 |
| nationality | 265 | 143 | 53 | 0 | 12 | 78 | 200 | 225 | 84 | 75 | 54 | 18 | 20 | 37 |
| type | 975 | 490 | 375 | 0 | 56 | 59 | 544 | 0 | 64 | 56 | 12 | 13 | 38 | 76 |
| entity-rel | 1153 | 619 | 354 | 0 | 97 | 168 | 702 | 0 | 73 | 61 | 27 | 22 | 31 | 57 |
| person | 118 | 63 | 23 | 0 | 1 | 39 | 94 | 314 | 85 | 80 | 62 | 4 | 19 | 36 |
| facility | 81 | 16 | 2 | 0 | 1 | 13 | 78 | 354 | 98 | 96 | 81 | 33 | 2 | 12 |
| subtotals | 4147 | 2178 | 1228 | 47 | 291 | 612 | 2581 | 1246 | 74 | 62 | 28 | 20 | 30 | 57 |
| <entity-relati | 437 | 350 | 201 | 0 | 51 | 98 | 185 | 0 | 62 | 42 | 28 | 20 | 46 | 57 |
| entity1 | 885 | 567 | 291 | 0 | 90 | 186 | 504 | 0 | 73 | 57 | 33 | 24 | 33 | 51 |
| entity2 | 267 | 58 | 21 | 0 | 17 | 20 | 229 | 74 | 93 | 86 | 34 | 45 | 8 | 36 |
| rel-ent2-to-e | 437 | 350 | 114 | 0 | 138 | 98 | 185 | 0 | 79 | 42 | 28 | 55 | 26 | 32 |
| status | 432 | 350 | 153 | 0 | 96 | 101 | 183 | 0 | 71 | 42 | 29 | 38 | 35 | 44 |
| subtotals | 2021 | 1325 | 579 | 0 | 341 | 405 | 1101 | 74 | 76 | 54 | 30 | 37 | 29 | 44 |
| <activity> | 387 | 135 | 87 | 0 | 28 | 20 | 272 | 0 | 79 | 70 | 15 | 24 | 22 | 64 |
| industry | 420 | 200 | 88 | 0 | 34 | 78 | 298 | 0 | 82 | 71 | 39 | 28 | 21 | 44 |
| site | 552 | 70 | 17 | 1 | 27 | 25 | 507 | 18 | 97 | 92 | 36 | 61 | 3 | 25 |
| start | 104 | 10 | 1 | 0 | 1 | 8 | 102 | 57 | 99 | 98 | 80 | 50 | 1 | 10 |
| end | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 84 | 100 | 100 | * | * | 0 | * |
| revenue | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 86 | 100 | 100 | * | * | 0 | * |
| subtotals | 1115 | 280 | 106 | 1 | 62 | 111 | 946 | 245 | 91 | 85 | 40 | 37 | 10 | 38 |
| <industry> | 413 | 201 | 113 | 0 | 35 | 53 | 265 | 0 | 76 | 64 | 26 | 24 | 27 | 56 |
| type | 382 | 201 | 104 | 0 | 34 | 63 | 244 | 0 | 77 | 64 | 31 | 25 | 27 | 52 |
| prod-serv | 818 | 216 | 52 | 8 | 88 | 68 | 670 | 0 | 94 | 82 | 31 | 62 | 7 | 26 |
| subtotals | 1200 | 417 | 156 | 8 | 122 | 131 | 914 | 0 | 88 | 76 | 31 | 44 | 13 | 38 |
| <facility> | 164 | 29 | 15 | 0 | 5 | 9 | 144 | 0 | 91 | 88 | 31 | 25 | 9 | 52 |
| name | 35 | 0 | 0 | 0 | 0 | 0 | 35 | 12 | 100 | 100 | * | * | 0 | * |
| location | 142 | 8 | 1 | 0 | 2 | 5 | 139 | 3 | 99 | 98 | 62 | 67 | 1 | 12 |
| type | 163 | 29 | 15 | 0 | 5 | 9 | 143 | 0 | 91 | 88 | 31 | 25 | 9 | 52 |
| subtotals | 340 | 37 | 16 | 0 | 7 | 14 | 317 | 15 | 95 | 93 | 38 | 30 | 5 | 43 |
| <person> | 118 | 59 | 25 | 0 | 2 | 32 | 91 | 0 | 83 | 77 | 54 | 7 | 21 | 42 |
| name | 118 | 24 | 9 | 1 | 3 | 11 | 105 | 0 | 93 | 89 | 46 | 27 | 8 | 40 |
| entity | 118 | 59 | 23 | 0 | 4 | 32 | 91 | 0 | 85 | 77 | 54 | 15 | 19 | 39 |
| position | 136 | 53 | 11 | 0 | 17 | 25 | 108 | 0 | 93 | 79 | 47 | 61 | 8 | 21 |
| subtotals | 372 | 136 | 43 | 1 | 24 | 68 | 304 | 0 | 90 | 82 | 50 | 36 | 12 | 32 |
| <ownership> | 103 | 27 | 20 | 0 | 5 | 2 | 78 | 0 | 81 | 76 | 7 | 20 | 19 | 74 |
| time | 22 | 0 | 0 | 0 | 0 | 0 | 22 | 18 | 100 | 100 | * | * | 0 | * |
| owned | 103 | 22 | 7 | 0 | 14 | 1 | 82 | 0 | 93 | 80 | 4 | 67 | 7 | 32 |
| capital | 28 | 17 | 8 | 0 | 8 | 1 | 12 | 1 | 72 | 43 | 6 | 50 | 28 | 47 |
| owner% | 376 | 25 | 13 | 1 | 8 | 3 | 354 | 4 | 96 | 94 | 12 | 39 | 4 | 54 |
| subtotals | 529 | 64 | 28 | 1 | 30 | 5 | 470 | 23 | 95 | 89 | 8 | 52 | 5 | 44 |
| <revenue> | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 100 | 100 | * | * | 0 | * |
| type | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 100 | 100 | * | * | 0 | * |
| total | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 100 | 100 | * | * | 0 | * |
| total-eta | 11 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 100 | 100 | * | * | 0 | * |
| rate | 8 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 100 | 100 | * | * | 0 | * |
| rate-eta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * | * | * | * | * |
| subtotals | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 100 | 100 | * | * | 0 | * |
| <time> | 149 | 10 | 1 | 0 | 3 | 6 | 145 | 0 | 99 | 97 | 60 | 75 | 1 | 10 |
| after | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| before | 27 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 100 | 100 | * | * | 0 | * |
| during | 91 | 7 | 1 | 0 | 3 | 3 | 87 | 0 | 99 | 96 | 43 | 75 | 1 | 14 |
| on | 19 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 153 | 7 | 1 | 0 | 3 | 3 | 149 | 0 | 99 | 97 | 43 | 75 | 1 | 14 |

| | | | | | | | | | | | | | | |
|---------------------------|-------|------|------|-------|----|------------|------|------------|----|---------|----|---------|----|----|
| ALL-OBJECTS | 12090 | 5635 | 2864 | 58 | 81 | 1609 | 8064 | 1821 | 79 | 67 | 28 | 28 | 24 | 51 |
| MATCHED-ONLY | 4882 | 4059 | 2864 | 58 | 81 | 495 | 1318 | 1821 | 46 | 27 | 12 | 19 | 59 | 71 |
| TEXT-FILTERING | 251 | 208 | 192 | - | - | 16 | 59 | 15 | - | 24 | 8 | - | 76 | 92 |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | | Req-fills | | All-fills | | Min-err | | Max-err | | |
| ERROR-RATE-PER-WORD | | | | 10806 | | 11804 | | 12129 | | 0.8909 | | 0.9155 | | |
| F-MEASURES | | | | 10806 | | Word-count | | Error-rate | | | | | | |
| | | | | P&R | | 92862 | | 0.1164 | | | | | | |
| | | | | 32.64 | | 2P&R | | P&2R | | | | | | |
| | | | | | | 41.77 | | 26.79 | | | | | | |

2. Core-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------|------|------|------|--------|-----|------------|------|------------|-----|-----|-----|-----|-----|-----|
| <template> | 282 | 282 | 282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 348 | 275 | 189 | 0 | 30 | 56 | 129 | 15 | 53 | 37 | 20 | 14 | 54 | 69 |
| subtotals | 348 | 275 | 189 | 0 | 30 | 56 | 129 | 15 | 53 | 37 | 20 | 14 | 54 | 69 |
| <tie-up-relati | 348 | 275 | 189 | 0 | 30 | 56 | 129 | 0 | 53 | 37 | 20 | 14 | 54 | 69 |
| status | 348 | 275 | 156 | 0 | 63 | 56 | 129 | 0 | 61 | 37 | 20 | 29 | 45 | 57 |
| entity | 791 | 419 | 252 | 0 | 80 | 87 | 459 | 0 | 71 | 58 | 21 | 24 | 32 | 60 |
| joint-venture | 179 | 59 | 20 | 0 | 13 | 26 | 146 | 74 | 90 | 82 | 44 | 39 | 11 | 34 |
| subtotals | 1318 | 753 | 428 | 0 | 156 | 169 | 734 | 74 | 71 | 56 | 22 | 27 | 32 | 57 |
| <entity> | 975 | 490 | 381 | 0 | 50 | 59 | 544 | 0 | 63 | 56 | 12 | 12 | 39 | 78 |
| name | 873 | 452 | 258 | 34 | 95 | 65 | 486 | 7 | 71 | 56 | 14 | 29 | 32 | 61 |
| aliases | 359 | 216 | 136 | 2 | 6 | 72 | 215 | 165 | 68 | 60 | 33 | 5 | 38 | 63 |
| location | 323 | 179 | 27 | 11 | 23 | 118 | 262 | 181 | 93 | 81 | 66 | 47 | 10 | 18 |
| nationality | 265 | 143 | 53 | 0 | 12 | 78 | 200 | 225 | 84 | 75 | 54 | 18 | 20 | 37 |
| type | 975 | 490 | 375 | 0 | 56 | 59 | 544 | 0 | 64 | 56 | 12 | 13 | 38 | 76 |
| entity-rel | 1153 | 619 | 354 | 0 | 97 | 168 | 702 | 0 | 73 | 61 | 27 | 22 | 31 | 57 |
| subtotals | 3948 | 2099 | 1203 | 47 | 289 | 560 | 2409 | 578 | 73 | 61 | 27 | 20 | 31 | 58 |
| <entity-relati | 437 | 350 | 201 | 0 | 51 | 98 | 185 | 0 | 62 | 42 | 28 | 20 | 46 | 57 |
| entity1 | 885 | 567 | 291 | 0 | 90 | 186 | 504 | 0 | 73 | 57 | 33 | 24 | 33 | 51 |
| entity2 | 267 | 58 | 21 | 0 | 17 | 20 | 229 | 74 | 93 | 86 | 34 | 45 | 8 | 36 |
| rel-ent2-to-e | 437 | 350 | 114 | 0 | 138 | 98 | 185 | 0 | 79 | 42 | 28 | 55 | 26 | 32 |
| status | 432 | 350 | 153 | 0 | 96 | 101 | 183 | 0 | 71 | 42 | 29 | 38 | 35 | 44 |
| subtotals | 2021 | 1325 | 579 | 0 | 341 | 405 | 1101 | 74 | 76 | 54 | 30 | 37 | 29 | 44 |
| ALL-OBJECTS | 7635 | 4452 | 2399 | 47 | 75 | 1190 | 4373 | 741 | 72 | 57 | 27 | 26 | 32 | 54 |
| MATCHED-ONLY | 3647 | 3277 | 2399 | 47 | 75 | 384 | 754 | 741 | 40 | 21 | 12 | 16 | 66 | 74 |
| TEXT-FILTERING | 251 | 208 | 192 | - | - | 16 | 59 | 15 | - | 24 | 8 | - | 76 | 92 |
| ERROR-RATE-PER-WORD | | | | Wrong | | Word-count | | Error-rate | | | | | | |
| | | | | 6402.5 | | 92862 | | 0.0689 | | | | | | |
| F-MEASURES | | | | P&R | | 2P&R | | P&2R | | | | | | |
| | | | | 40.08 | | 47.61 | | 34.62 | | | | | | |

EJV Summary Scores
Umass/Hughes CIRCUS System

1. Full-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|
| <template> | 282 | 281 | 281 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-nr | 282 | 281 | 281 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-date | 275 | 281 | 274 | 0 | 0 | 7 | 1 | 0 | 3 | 0 | 0 | 0 | 100 | 98 |
| doc-source | 276 | 281 | 275 | 0 | 0 | 6 | 1 | 0 | 2 | 0 | 2 | 0 | 100 | 98 |
| content | 349 | 223 | 169 | 0 | 10 | 44 | 170 | 21 | 57 | 49 | 20 | 6 | 48 | 76 |
| subtotals | 349 | 223 | 169 | 0 | 10 | 44 | 170 | 21 | 57 | 49 | 20 | 6 | 48 | 76 |
| <tie-up-relati | 349 | 237 | 182 | 0 | 10 | 45 | 157 | 0 | 54 | 45 | 19 | 5 | 52 | 77 |
| status | 349 | 167 | 115 | 0 | 33 | 19 | 201 | 0 | 69 | 58 | 11 | 22 | 33 | 69 |
| entity | 793 | 509 | 304 | 0 | 66 | 139 | 423 | 0 | 67 | 53 | 27 | 18 | 38 | 60 |
| joint-venture | 180 | 78 | 33 | 0 | 16 | 29 | 131 | 53 | 84 | 73 | 37 | 33 | 18 | 42 |
| ownership | 102 | 41 | 27 | 0 | 2 | 12 | 73 | 114 | 76 | 72 | 29 | 7 | 26 | 66 |
| activity | 388 | 103 | 45 | 0 | 24 | 34 | 319 | 15 | 89 | 82 | 33 | 35 | 12 | 44 |
| subtotals | 1812 | 898 | 524 | 0 | 141 | 233 | 1147 | 182 | 74 | 63 | 26 | 21 | 29 | 58 |
| <entity> | 976 | 1017 | 611 | 0 | 128 | 278 | 237 | 0 | 51 | 24 | 27 | 17 | 63 | 60 |
| name | 873 | 873 | 320 | 84 | 215 | 254 | 254 | 16 | 68 | 29 | 29 | 42 | 41 | 41 |
| aliases | 359 | 92 | 66 | 3 | 4 | 19 | 286 | 358 | 82 | 80 | 21 | 8 | 19 | 73 |
| location | 325 | 223 | 91 | 8 | 23 | 101 | 203 | 393 | 78 | 62 | 45 | 22 | 29 | 43 |
| nationality | 265 | 190 | 87 | 1 | 9 | 93 | 168 | 418 | 76 | 63 | 49 | 10 | 33 | 46 |
| type | 976 | 878 | 545 | 0 | 120 | 213 | 311 | 0 | 54 | 32 | 24 | 18 | 56 | 62 |
| entity-rel | 1155 | 599 | 392 | 0 | 73 | 134 | 690 | 0 | 70 | 60 | 22 | 16 | 34 | 65 |
| person | 118 | 42 | 16 | 0 | 4 | 22 | 98 | 535 | 88 | 83 | 52 | 20 | 14 | 38 |
| facility | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 577 | 100 | 100 | * | * | 0 | * |
| subtotals | 4152 | 2897 | 1517 | 96 | 448 | 836 | 2091 | 2297 | 69 | 50 | 29 | 24 | 38 | 54 |
| <entity-relati | 436 | 237 | 175 | 0 | 29 | 33 | 232 | 0 | 63 | 53 | 14 | 14 | 40 | 74 |
| entity1 | 883 | 518 | 304 | 0 | 76 | 138 | 503 | 0 | 70 | 57 | 27 | 20 | 34 | 59 |
| entity2 | 266 | 78 | 38 | 0 | 19 | 21 | 209 | 53 | 87 | 78 | 27 | 33 | 14 | 49 |
| rel-ent2-to-e | 436 | 237 | 101 | 0 | 103 | 33 | 232 | 0 | 78 | 53 | 14 | 50 | 23 | 43 |
| status | 431 | 237 | 136 | 0 | 66 | 35 | 229 | 0 | 71 | 53 | 15 | 33 | 32 | 57 |
| subtotals | 2016 | 1070 | 579 | 0 | 264 | 227 | 1173 | 53 | 74 | 58 | 21 | 31 | 29 | 54 |
| <activity> | 387 | 101 | 66 | 0 | 19 | 16 | 302 | 0 | 84 | 78 | 16 | 22 | 17 | 65 |
| industry | 420 | 88 | 64 | 0 | 8 | 16 | 348 | 0 | 85 | 83 | 18 | 11 | 15 | 73 |
| site | 552 | 0 | 0 | 0 | 0 | 0 | 552 | 9 | 100 | 100 | * | * | 0 | * |
| start | 103 | 0 | 0 | 0 | 0 | 0 | 103 | 48 | 100 | 100 | * | * | 0 | * |
| end | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 61 | 100 | 100 | * | * | 0 | * |
| revenue | 23 | 17 | 2 | 0 | 1 | 14 | 20 | 60 | 94 | 87 | 82 | 33 | 9 | 12 |
| subtotals | 1114 | 105 | 66 | 0 | 9 | 30 | 1039 | 178 | 94 | 93 | 28 | 12 | 6 | 63 |
| <industry> | 413 | 89 | 66 | 0 | 11 | 12 | 336 | 0 | 84 | 81 | 13 | 14 | 16 | 74 |
| type | 380 | 58 | 41 | 0 | 8 | 9 | 331 | 1 | 89 | 87 | 16 | 16 | 11 | 71 |
| prod-serv | 807 | 113 | 21 | 26 | 50 | 16 | 710 | 11 | 96 | 88 | 14 | 65 | 4 | 30 |
| subtotals | 1187 | 171 | 62 | 26 | 58 | 25 | 1041 | 12 | 94 | 88 | 15 | 49 | 6 | 44 |
| <facility> | 164 | 4 | 1 | 0 | 1 | 2 | 162 | 0 | 99 | 99 | 50 | 50 | 1 | 25 |
| name | 35 | 0 | 0 | 0 | 0 | 0 | 35 | 1 | 100 | 100 | * | * | 0 | * |
| location | 142 | 4 | 1 | 0 | 1 | 2 | 140 | 0 | 99 | 98 | 50 | 50 | 1 | 25 |
| type | 163 | 0 | 0 | 0 | 0 | 0 | 163 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 340 | 4 | 1 | 0 | 1 | 2 | 338 | 1 | 100 | 99 | 50 | 50 | 0 | 25 |
| <person> | 118 | 195 | 64 | 0 | 11 | 120 | 43 | 0 | 73 | 36 | 62 | 15 | 54 | 33 |
| name | 118 | 164 | 45 | 5 | 17 | 97 | 51 | 0 | 78 | 43 | 59 | 29 | 40 | 29 |
| entity | 118 | 42 | 16 | 0 | 8 | 18 | 94 | 0 | 88 | 80 | 43 | 33 | 14 | 38 |
| position | 136 | 112 | 46 | 0 | 7 | 59 | 83 | 0 | 76 | 61 | 53 | 13 | 34 | 41 |
| subtotals | 372 | 318 | 107 | 5 | 32 | 174 | 228 | 0 | 80 | 61 | 55 | 24 | 29 | 34 |
| <ownership> | 102 | 41 | 29 | 0 | 3 | 9 | 70 | 0 | 74 | 69 | 22 | 9 | 28 | 71 |
| time | 21 | 0 | 0 | 0 | 0 | 0 | 21 | 27 | 100 | 100 | * | * | 0 | * |
| owned | 102 | 17 | 7 | 0 | 7 | 3 | 88 | 0 | 93 | 86 | 18 | 50 | 7 | 41 |
| capital | 27 | 8 | 4 | 0 | 1 | 3 | 22 | 15 | 87 | 81 | 38 | 20 | 15 | 50 |
| owner% | 376 | 124 | 48 | 10 | 30 | 36 | 288 | 1 | 87 | 76 | 29 | 40 | 14 | 43 |
| subtotals | 526 | 149 | 59 | 10 | 38 | 42 | 419 | 43 | 89 | 80 | 28 | 40 | 12 | 43 |
| <revenue> | 23 | 17 | 2 | 0 | 3 | 12 | 18 | 0 | 94 | 78 | 70 | 60 | 9 | 12 |
| type | 23 | 17 | 2 | 0 | 3 | 12 | 18 | 0 | 94 | 78 | 70 | 60 | 9 | 12 |
| total | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 2 | 100 | 100 | * | * | 0 | * |
| total-eta | 11 | 0 | 0 | 0 | 0 | 0 | 11 | 2 | 100 | 100 | * | * | 0 | * |
| rate | 8 | 17 | 2 | 0 | 1 | 14 | 5 | 0 | 91 | 62 | 82 | 33 | 25 | 12 |
| rate-eta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | * | * | * | * | * | * |
| subtotals | 57 | 34 | 4 | 0 | 4 | 26 | 49 | 6 | 95 | 86 | 76 | 50 | 7 | 12 |
| <time> | 149 | 0 | 0 | 0 | 0 | 0 | 149 | 0 | 100 | 100 | * | * | 0 | * |
| after | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| before | 27 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 100 | 100 | * | * | 0 | * |
| during | 91 | 0 | 0 | 0 | 0 | 0 | 91 | 0 | 100 | 100 | * | * | 0 | * |
| on | 19 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 153 | 0 | 0 | 0 | 0 | 0 | 153 | 0 | 100 | 100 | * | * | 0 | * |

| | | | | | | | | | | | | | | |
|---------------------------|-------|------|---------|-----|-----|------------|------|------------|----|---------|----|---------|----|----|
| ALL-OBJECTS | 12078 | 5869 | 3088 | 137 | 161 | 1639 | 7848 | 2793 | 77 | 65 | 28 | 25 | 26 | 54 |
| MATCHED-ONLY | 5772 | 4137 | 3088 | 137 | 161 | 313 | 1948 | 2793 | 48 | 34 | 8 | 17 | 55 | 76 |
| TEXT-FILTERING | 251 | 174 | 164 | - | - | 10 | 87 | 21 | - | 35 | 6 | - | 65 | 94 |
| RICHNESS-NORMALIZED-ERROR | | | Wrong | | | Req-fills | | All-fills | | Min-err | | Max-err | | |
| | | | 10560.5 | | | 11807 | | 12133 | | 0.8704 | | 0.8944 | | |
| ERROR-RATE-PER-WORD | | | Wrong | | | Word-count | | Error-rate | | | | | | |
| | | | 10560.5 | | | 92862 | | 0.1137 | | | | | | |
| F-MEASURES | | | P&R | | | 2P&R | | P&2R | | | | | | |
| | | | 35.18 | | | 44.39 | | 29.13 | | | | | | |

2. Core-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------|------|------|-------|-----|-----|------------|------|------------|-----|-----|-----|-----|-----|-----|
| <template> | 282 | 281 | 281 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 349 | 223 | 169 | 0 | 10 | 44 | 170 | 21 | 57 | 49 | 20 | 6 | 48 | 76 |
| subtotals | 349 | 223 | 169 | 0 | 10 | 44 | 170 | 21 | 57 | 49 | 20 | 6 | 48 | 76 |
| <tie-up-relati | 349 | 237 | 182 | 0 | 10 | 45 | 157 | 0 | 54 | 45 | 19 | 5 | 52 | 77 |
| status | 349 | 167 | 115 | 0 | 33 | 19 | 201 | 0 | 69 | 58 | 11 | 22 | 33 | 69 |
| entity | 793 | 509 | 304 | 0 | 66 | 139 | 423 | 0 | 67 | 53 | 27 | 18 | 38 | 60 |
| joint-venture | 180 | 78 | 33 | 0 | 16 | 29 | 131 | 53 | 84 | 73 | 37 | 33 | 18 | 42 |
| subtotals | 1322 | 754 | 452 | 0 | 115 | 187 | 755 | 53 | 70 | 57 | 25 | 20 | 34 | 60 |
| <entity> | 976 | 1017 | 611 | 0 | 128 | 278 | 237 | 0 | 51 | 24 | 27 | 17 | 63 | 60 |
| name | 873 | 873 | 320 | 84 | 215 | 254 | 254 | 16 | 68 | 29 | 29 | 42 | 41 | 41 |
| aliases | 359 | 92 | 66 | 3 | 4 | 19 | 286 | 358 | 82 | 80 | 21 | 8 | 19 | 73 |
| location | 325 | 223 | 91 | 8 | 23 | 101 | 203 | 393 | 78 | 62 | 45 | 22 | 29 | 43 |
| nationality | 265 | 190 | 87 | 1 | 9 | 93 | 168 | 418 | 76 | 63 | 49 | 10 | 33 | 46 |
| type | 976 | 878 | 545 | 0 | 120 | 213 | 311 | 0 | 54 | 32 | 24 | 18 | 56 | 62 |
| entity-rel | 1155 | 599 | 392 | 0 | 73 | 134 | 690 | 0 | 70 | 60 | 22 | 16 | 34 | 65 |
| subtotals | 3953 | 2855 | 1501 | 96 | 444 | 814 | 1912 | 1185 | 68 | 48 | 28 | 24 | 39 | 54 |
| <entity-relati | 436 | 237 | 175 | 0 | 29 | 33 | 232 | 0 | 63 | 53 | 14 | 14 | 40 | 74 |
| entity1 | 883 | 518 | 304 | 0 | 76 | 138 | 503 | 0 | 70 | 57 | 27 | 20 | 34 | 59 |
| entity2 | 266 | 78 | 38 | 0 | 19 | 21 | 209 | 53 | 87 | 78 | 27 | 33 | 14 | 49 |
| rel-ent2-to-e | 436 | 237 | 101 | 0 | 103 | 33 | 232 | 0 | 78 | 53 | 14 | 50 | 23 | 43 |
| status | 431 | 237 | 136 | 0 | 66 | 35 | 229 | 0 | 71 | 53 | 15 | 33 | 32 | 57 |
| subtotals | 2016 | 1070 | 579 | 0 | 264 | 227 | 1173 | 53 | 74 | 58 | 21 | 31 | 29 | 54 |
| ALL-OBJECTS | 7640 | 4902 | 2701 | 96 | 145 | 1272 | 4010 | 1312 | 69 | 52 | 26 | 24 | 36 | 56 |
| MATCHED-ONLY | 4513 | 3562 | 2701 | 96 | 145 | 284 | 1235 | 1312 | 43 | 27 | 8 | 16 | 61 | 77 |
| TEXT-FILTERING | 251 | 174 | 164 | - | - | 10 | 87 | 21 | - | 35 | 6 | - | 65 | 94 |
| ERROR-RATE-PER-WORD | | | Wrong | | | Word-count | | Error-rate | | | | | | |
| | | | 6163 | | | 92862 | | 0.0664 | | | | | | |
| F-MEASURES | | | P&R | | | 2P&R | | P&2R | | | | | | |
| | | | 43.84 | | | 50.44 | | 38.76 | | | | | | |

JJV Summary Scores
BBN PLUM System

1. Full-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <template> | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-nr | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-date | 147 | 147 | 147 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-source | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 205 | 246 | 158 | 0 | 8 | 80 | 39 | 1 | 44 | 19 | 32 | 5 | 77 | 64 |
| subtotals | 205 | 246 | 158 | 0 | 8 | 80 | 39 | 1 | 44 | 19 | 32 | 5 | 77 | 64 |
| <tie-up-relati | 205 | 246 | 158 | 0 | 8 | 80 | 39 | 0 | 44 | 19 | 32 | 5 | 77 | 64 |
| status | 205 | 246 | 151 | 0 | 15 | 80 | 39 | 0 | 47 | 19 | 32 | 9 | 74 | 61 |
| entity | 440 | 370 | 237 | 0 | 21 | 112 | 182 | 0 | 57 | 41 | 30 | 8 | 54 | 64 |
| joint-venture | 23 | 21 | 5 | 0 | 2 | 14 | 16 | 138 | 86 | 70 | 67 | 28 | 22 | 24 |
| ownership | 31 | 0 | 0 | 0 | 0 | 0 | 31 | 134 | 100 | 100 | * | * | 0 | * |
| activity | 235 | 92 | 34 | 0 | 24 | 34 | 177 | 14 | 87 | 75 | 37 | 41 | 14 | 37 |
| subtotals | 934 | 729 | 427 | 0 | 62 | 240 | 445 | 286 | 64 | 48 | 33 | 13 | 46 | 58 |
| <entity> | 423 | 316 | 265 | 0 | 20 | 31 | 138 | 0 | 42 | 33 | 10 | 7 | 63 | 84 |
| name | 405 | 295 | 199 | 23 | 45 | 28 | 138 | 3 | 51 | 34 | 9 | 21 | 52 | 71 |
| aliases | 174 | 118 | 68 | 3 | 9 | 38 | 94 | 127 | 67 | 54 | 32 | 13 | 40 | 59 |
| location | 118 | 34 | 0 | 0 | 26 | 8 | 92 | 207 | 100 | 78 | 24 | 100 | 0 | 0 |
| nationality | 125 | 22 | 14 | 0 | 1 | 7 | 110 | 195 | 89 | 88 | 32 | 7 | 11 | 64 |
| type | 423 | 316 | 262 | 0 | 23 | 31 | 138 | 0 | 42 | 33 | 10 | 8 | 62 | 83 |
| entity-rel | 495 | 388 | 254 | 0 | 31 | 103 | 210 | 0 | 58 | 42 | 26 | 11 | 51 | 65 |
| person | 75 | 9 | 8 | 0 | 0 | 1 | 67 | 227 | 89 | 89 | 11 | 0 | 11 | 89 |
| facility | 108 | 52 | 13 | 0 | 11 | 28 | 84 | 206 | 90 | 78 | 54 | 46 | 12 | 25 |
| subtotals | 1923 | 1234 | 818 | 26 | 146 | 244 | 933 | 965 | 62 | 48 | 20 | 16 | 43 | 67 |
| <entity-relati | 219 | 246 | 161 | 0 | 8 | 77 | 50 | 0 | 46 | 23 | 31 | 5 | 74 | 65 |
| entity1 | 454 | 370 | 242 | 0 | 18 | 110 | 194 | 0 | 57 | 43 | 30 | 7 | 53 | 65 |
| entity2 | 37 | 21 | 6 | 0 | 3 | 12 | 28 | 138 | 88 | 76 | 57 | 33 | 16 | 28 |
| rel-ent2-to-e | 219 | 246 | 144 | 0 | 25 | 77 | 50 | 0 | 51 | 23 | 31 | 15 | 66 | 58 |
| status | 218 | 246 | 152 | 0 | 16 | 78 | 50 | 0 | 49 | 23 | 32 | 10 | 70 | 62 |
| subtotals | 928 | 883 | 544 | 0 | 62 | 277 | 322 | 138 | 55 | 35 | 31 | 10 | 59 | 62 |
| <activity> | 235 | 65 | 38 | 0 | 19 | 8 | 178 | 0 | 84 | 76 | 12 | 33 | 16 | 58 |
| industry | 275 | 64 | 38 | 0 | 19 | 7 | 218 | 0 | 86 | 79 | 11 | 33 | 14 | 59 |
| site | 616 | 1 | 0 | 0 | 0 | 1 | 616 | 0 | 100 | 100 | * | 0 | 0 | 0 |
| start | 84 | 0 | 0 | 0 | 0 | 0 | 84 | 25 | 100 | 100 | * | * | 0 | * |
| end | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 37 | 100 | 100 | * | * | 0 | * |
| revenue | 18 | 0 | 0 | 0 | 0 | 0 | 18 | 33 | 100 | 100 | * | * | 0 | * |
| subtotals | 999 | 65 | 38 | 0 | 19 | 8 | 942 | 95 | 96 | 94 | 12 | 33 | 4 | 58 |
| <industry> | 255 | 64 | 42 | 0 | 15 | 7 | 198 | 0 | 84 | 78 | 11 | 26 | 16 | 66 |
| type | 253 | 64 | 42 | 0 | 15 | 7 | 196 | 0 | 84 | 77 | 11 | 26 | 17 | 66 |
| prod-serv | 566 | 0 | 0 | 0 | 0 | 0 | 566 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 819 | 64 | 42 | 0 | 15 | 7 | 762 | 0 | 95 | 93 | 11 | 26 | 5 | 66 |
| <facility> | 99 | 46 | 19 | 0 | 6 | 21 | 74 | 0 | 84 | 75 | 46 | 24 | 19 | 41 |
| name | 11 | 17 | 0 | 0 | 3 | 14 | 8 | 12 | 100 | 73 | 82 | 100 | 0 | 0 |
| location | 51 | 10 | 2 | 1 | 4 | 3 | 44 | 5 | 95 | 86 | 30 | 64 | 5 | 25 |
| type | 98 | 46 | 18 | 0 | 7 | 21 | 73 | 0 | 85 | 74 | 46 | 28 | 18 | 39 |
| subtotals | 160 | 73 | 20 | 1 | 14 | 38 | 125 | 17 | 90 | 78 | 52 | 41 | 13 | 28 |
| <person> | 75 | 9 | 8 | 0 | 1 | 0 | 66 | 0 | 89 | 88 | 0 | 11 | 11 | 89 |
| name | 75 | 9 | 8 | 0 | 1 | 0 | 66 | 0 | 89 | 88 | 0 | 11 | 11 | 89 |
| entity | 73 | 9 | 8 | 0 | 1 | 0 | 64 | 0 | 89 | 88 | 0 | 11 | 11 | 89 |
| position | 75 | 9 | 8 | 0 | 1 | 0 | 66 | 0 | 89 | 88 | 0 | 11 | 11 | 89 |
| subtotals | 223 | 27 | 24 | 0 | 3 | 0 | 196 | 0 | 89 | 88 | 0 | 11 | 11 | 89 |
| <ownership> | 31 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 100 | 100 | * | * | 0 | * |
| time | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 100 | 100 | * | * | 0 | * |
| owned | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 100 | 100 | * | * | 0 | * |
| capital | 9 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 100 | 100 | * | * | 0 | * |
| owner% | 76 | 0 | 0 | 0 | 0 | 0 | 76 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 127 | 0 | 0 | 0 | 0 | 0 | 127 | 0 | 100 | 100 | * | * | 0 | * |
| <revenue> | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| type | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| total | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 100 | 100 | * | * | 0 | * |
| total-eta | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 100 | 100 | * | * | 0 | * |
| rate | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 100 | 100 | * | * | 0 | * |
| rate-eta | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 100 | 100 | * | * | 0 | * |
| <time> | 107 | 0 | 0 | 0 | 0 | 0 | 107 | 0 | 100 | 100 | * | * | 0 | * |
| after | 101 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 100 | 100 | * | * | 0 | * |
| before | 13 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 100 | 100 | * | * | 0 | * |
| during | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 100 | 100 | * | * | 0 | * |
| on | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 115 | 0 | 0 | 0 | 0 | 0 | 115 | 0 | 100 | 100 | * | * | 0 | * |

| | | | | | | | | | | | | | | |
|---------------------------|------|------|--------|----|------------|-----|------------|------|---------|----|---------|----|----|----|
| ALL-OBJECTS | 6490 | 3321 | 2071 | 27 | 46 | 894 | 4063 | 1502 | 72 | 63 | 27 | 14 | 32 | 63 |
| MATCHED-ONLY | 3146 | 2565 | 2071 | 27 | 46 | 272 | 853 | 1502 | 39 | 27 | 11 | 9 | 66 | 81 |
| TEXT-FILTERING | 145 | 133 | 129 | - | - | 4 | 16 | 1 | - | 11 | 3 | - | 89 | 97 |
| RICHNESS-NORMALIZED-ERROR | | | Wrong | | Req-fills | | All-fills | | Min-err | | Max-err | | | |
| | | | 5299.5 | | 6466 | | 6633 | | 0.799 | | 0.8196 | | | |
| ERROR-RATE-PER-WORD | | | Wrong | | Word-count | | Error-rate | | | | | | | |
| | | | 5299.5 | | 1771 | | 2.9924 | | | | | | | |
| F-MEASURES | | | P&R | | 2P&R | | P&2R | | | | | | | |
| | | | 42.49 | | 52.71 | | 35.59 | | | | | | | |

2. Core-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------|------|------|-------|-----|------------|-----|------------|-----|-----|-----|-----|-----|-----|-----|
| <template> | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 205 | 246 | 158 | 0 | 8 | 80 | 39 | 1 | 44 | 19 | 32 | 5 | 77 | 64 |
| subtotals | 205 | 246 | 158 | 0 | 8 | 80 | 39 | 1 | 44 | 19 | 32 | 5 | 77 | 64 |
| <tie-up-relati | 205 | 246 | 158 | 0 | 8 | 80 | 39 | 0 | 44 | 19 | 32 | 5 | 77 | 64 |
| status | 205 | 246 | 151 | 0 | 15 | 80 | 39 | 0 | 47 | 19 | 32 | 9 | 74 | 61 |
| entity | 440 | 370 | 237 | 0 | 21 | 112 | 182 | 0 | 57 | 41 | 30 | 8 | 54 | 64 |
| joint-venture | 23 | 21 | 5 | 0 | 1 | 15 | 17 | 137 | 87 | 74 | 71 | 17 | 22 | 24 |
| subtotals | 668 | 637 | 393 | 0 | 37 | 207 | 238 | 137 | 55 | 36 | 32 | 9 | 59 | 62 |
| <entity> | 423 | 316 | 265 | 0 | 20 | 31 | 138 | 0 | 42 | 33 | 10 | 7 | 63 | 84 |
| name | 405 | 295 | 199 | 23 | 45 | 28 | 138 | 3 | 51 | 34 | 9 | 21 | 52 | 71 |
| aliases | 174 | 118 | 68 | 3 | 9 | 38 | 94 | 127 | 67 | 54 | 32 | 13 | 40 | 59 |
| location | 118 | 34 | 0 | 0 | 26 | 8 | 92 | 207 | 100 | 78 | 24 | 100 | 0 | 0 |
| nationality | 125 | 22 | 14 | 0 | 1 | 7 | 110 | 195 | 89 | 88 | 32 | 7 | 11 | 64 |
| type | 423 | 316 | 262 | 0 | 23 | 31 | 138 | 0 | 42 | 33 | 10 | 8 | 62 | 83 |
| entity-rel | 495 | 388 | 254 | 0 | 31 | 103 | 210 | 0 | 58 | 42 | 26 | 11 | 51 | 65 |
| subtotals | 1740 | 1173 | 797 | 26 | 135 | 215 | 782 | 532 | 58 | 45 | 18 | 15 | 46 | 69 |
| <entity-relati | 219 | 246 | 161 | 0 | 8 | 77 | 50 | 0 | 46 | 23 | 31 | 5 | 74 | 65 |
| entity1 | 454 | 370 | 242 | 0 | 18 | 110 | 194 | 0 | 57 | 43 | 30 | 7 | 53 | 65 |
| entity2 | 37 | 21 | 6 | 0 | 3 | 12 | 28 | 138 | 88 | 76 | 57 | 33 | 16 | 28 |
| rel-ent2-to-e | 219 | 246 | 144 | 0 | 25 | 77 | 50 | 0 | 51 | 23 | 31 | 15 | 66 | 58 |
| status | 218 | 246 | 152 | 0 | 16 | 78 | 50 | 0 | 49 | 23 | 32 | 10 | 70 | 62 |
| subtotals | 928 | 883 | 544 | 0 | 62 | 277 | 322 | 138 | 55 | 35 | 31 | 10 | 59 | 62 |
| ALL-OBJECTS | 3541 | 2939 | 1892 | 26 | 44 | 779 | 1381 | 808 | 56 | 39 | 26 | 12 | 54 | 65 |
| MATCHED-ONLY | 2457 | 2299 | 1892 | 26 | 44 | 228 | 386 | 808 | 29 | 16 | 10 | 8 | 78 | 83 |
| TEXT-FILTERING | 145 | 133 | 129 | - | - | 4 | 16 | 1 | - | 11 | 3 | - | 89 | 97 |
| ERROR-RATE-PER-WORD | | | Wrong | | Word-count | | Error-rate | | | | | | | |
| | | | 2415 | | 1771 | | 1.3636 | | | | | | | |
| F-MEASURES | | | P&R | | 2P&R | | P&2R | | | | | | | |
| | | | 58.8 | | 62.27 | | 55.69 | | | | | | | |

JJV Summary Scores
GE/CMU Shogun System

1. Full-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| <template> | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-nr | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-date | 147 | 147 | 147 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-source | 150 | 150 | 119 | 31 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 90 | 90 |
| content | 204 | 197 | 170 | 0 | 3 | 24 | 31 | 2 | 25 | 15 | 12 | 2 | 83 | 86 |
| subtotals | 204 | 197 | 170 | 0 | 3 | 24 | 31 | 2 | 25 | 15 | 12 | 2 | 83 | 86 |
| <tie-up-relati | 204 | 197 | 170 | 0 | 3 | 24 | 31 | 0 | 25 | 15 | 12 | 2 | 83 | 86 |
| status | 204 | 197 | 164 | 0 | 9 | 24 | 31 | 0 | 28 | 15 | 12 | 5 | 80 | 83 |
| entity | 438 | 458 | 325 | 0 | 24 | 109 | 89 | 0 | 40 | 20 | 24 | 7 | 74 | 71 |
| joint-venture | 22 | 22 | 9 | 0 | 2 | 11 | 11 | 146 | 73 | 50 | 50 | 18 | 41 | 41 |
| ownership | 32 | 16 | 10 | 0 | 1 | 5 | 21 | 141 | 73 | 66 | 31 | 9 | 31 | 62 |
| activity | 236 | 206 | 124 | 0 | 11 | 71 | 101 | 13 | 60 | 43 | 34 | 8 | 52 | 60 |
| subtotals | 932 | 899 | 632 | 0 | 47 | 220 | 253 | 300 | 45 | 27 | 24 | 7 | 68 | 70 |
| <entity> | 423 | 433 | 357 | 0 | 10 | 66 | 56 | 0 | 27 | 13 | 15 | 3 | 84 | 82 |
| name | 405 | 417 | 296 | 22 | 37 | 62 | 50 | 2 | 34 | 12 | 15 | 14 | 76 | 74 |
| aliases | 177 | 226 | 126 | 9 | 6 | 85 | 36 | 171 | 50 | 20 | 38 | 7 | 74 | 58 |
| location | 118 | 101 | 65 | 7 | 3 | 26 | 43 | 240 | 52 | 36 | 26 | 9 | 58 | 68 |
| nationality | 126 | 61 | 50 | 0 | 1 | 10 | 75 | 243 | 63 | 60 | 16 | 2 | 40 | 82 |
| type | 423 | 433 | 351 | 0 | 16 | 66 | 56 | 0 | 28 | 13 | 15 | 4 | 83 | 81 |
| entity-rel | 494 | 502 | 351 | 0 | 32 | 119 | 111 | 0 | 43 | 22 | 24 | 8 | 71 | 70 |
| person | 75 | 71 | 50 | 0 | 0 | 21 | 25 | 285 | 48 | 33 | 30 | 0 | 67 | 70 |
| facility | 108 | 93 | 23 | 0 | 10 | 60 | 75 | 258 | 86 | 69 | 64 | 30 | 21 | 25 |
| subtotals | 1926 | 1904 | 1312 | 38 | 105 | 449 | 471 | 1199 | 44 | 24 | 24 | 8 | 69 | 70 |
| <entity-relati | 219 | 208 | 174 | 0 | 5 | 29 | 40 | 0 | 30 | 18 | 14 | 3 | 79 | 84 |
| entity1 | 454 | 469 | 331 | 0 | 24 | 114 | 99 | 0 | 42 | 22 | 24 | 7 | 73 | 70 |
| entity2 | 37 | 33 | 14 | 0 | 1 | 18 | 22 | 147 | 74 | 59 | 54 | 7 | 38 | 42 |
| rel-ent2-to-e | 219 | 208 | 162 | 0 | 17 | 29 | 40 | 0 | 35 | 18 | 14 | 9 | 74 | 78 |
| status | 218 | 208 | 167 | 0 | 11 | 30 | 40 | 0 | 33 | 18 | 14 | 6 | 77 | 80 |
| subtotals | 928 | 918 | 674 | 0 | 53 | 191 | 201 | 147 | 40 | 22 | 21 | 7 | 73 | 73 |
| <activity> | 234 | 206 | 146 | 0 | 3 | 57 | 85 | 0 | 50 | 36 | 28 | 2 | 62 | 71 |
| industry | 274 | 208 | 131 | 0 | 18 | 59 | 125 | 0 | 61 | 46 | 28 | 12 | 48 | 63 |
| site | 615 | 536 | 217 | 0 | 29 | 290 | 369 | 154 | 76 | 60 | 54 | 12 | 35 | 40 |
| start | 84 | 49 | 12 | 0 | 8 | 29 | 64 | 80 | 89 | 76 | 59 | 40 | 14 | 24 |
| end | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 144 | 100 | 100 | * | * | 0 | * |
| revenue | 18 | 0 | 0 | 0 | 0 | 0 | 18 | 140 | 100 | 100 | * | * | 0 | * |
| subtotals | 997 | 793 | 360 | 0 | 55 | 378 | 582 | 518 | 74 | 58 | 48 | 13 | 36 | 45 |
| <industry> | 255 | 208 | 160 | 0 | 2 | 46 | 93 | 0 | 47 | 36 | 22 | 1 | 63 | 77 |
| type | 253 | 208 | 135 | 0 | 26 | 47 | 92 | 0 | 55 | 36 | 22 | 16 | 53 | 65 |
| prod-serv | 568 | 417 | 140 | 36 | 120 | 121 | 272 | 22 | 77 | 48 | 29 | 27 | 28 | 38 |
| subtotals | 821 | 625 | 275 | 36 | 146 | 168 | 364 | 22 | 70 | 44 | 27 | 36 | 36 | 47 |
| <facility> | 99 | 76 | 28 | 0 | 8 | 40 | 63 | 0 | 80 | 64 | 53 | 22 | 28 | 37 |
| name | 11 | 16 | 3 | 3 | 1 | 9 | 4 | 19 | 78 | 36 | 56 | 36 | 41 | 28 |
| location | 51 | 35 | 6 | 2 | 10 | 17 | 33 | 6 | 90 | 65 | 48 | 61 | 14 | 20 |
| type | 98 | 76 | 28 | 0 | 8 | 40 | 62 | 0 | 80 | 63 | 53 | 22 | 28 | 37 |
| subtotals | 160 | 127 | 37 | 5 | 19 | 66 | 99 | 25 | 82 | 62 | 52 | 35 | 25 | 31 |
| <person> | 75 | 70 | 55 | 0 | 0 | 15 | 20 | 0 | 39 | 27 | 21 | 0 | 73 | 78 |
| name | 75 | 70 | 47 | 7 | 1 | 15 | 20 | 0 | 44 | 27 | 21 | 8 | 67 | 72 |
| entity | 73 | 70 | 50 | 0 | 5 | 15 | 18 | 0 | 43 | 25 | 21 | 9 | 68 | 71 |
| position | 75 | 70 | 46 | 0 | 9 | 15 | 20 | 0 | 49 | 27 | 21 | 16 | 61 | 66 |
| subtotals | 223 | 210 | 143 | 7 | 15 | 45 | 58 | 0 | 45 | 26 | 21 | 11 | 66 | 70 |
| <ownership> | 32 | 16 | 10 | 0 | 2 | 4 | 20 | 0 | 72 | 62 | 25 | 17 | 31 | 62 |
| time | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 5 | 100 | 100 | * | * | 0 | * |
| owned | 31 | 4 | 3 | 0 | 0 | 1 | 28 | 0 | 91 | 90 | 25 | 0 | 10 | 75 |
| capital | 10 | 6 | 0 | 0 | 4 | 2 | 6 | 4 | 100 | 60 | 33 | 100 | 0 | 0 |
| owner% | 80 | 32 | 18 | 1 | 3 | 10 | 58 | 1 | 79 | 72 | 31 | 16 | 23 | 58 |
| subtotals | 133 | 42 | 21 | 1 | 7 | 13 | 104 | 10 | 85 | 78 | 31 | 26 | 16 | 51 |
| <revenue> | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| type | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| total | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 100 | 100 | * | * | 0 | * |
| total-eta | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 100 | 100 | * | * | 0 | * |
| rate | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 100 | 100 | * | * | 0 | * |
| rate-eta | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 100 | 100 | * | * | 0 | * |
| <time> | 107 | 49 | 15 | 0 | 15 | 19 | 77 | 0 | 88 | 72 | 39 | 50 | 14 | 31 |
| after | 101 | 47 | 15 | 0 | 11 | 21 | 75 | 0 | 88 | 74 | 45 | 42 | 15 | 32 |
| before | 13 | 1 | 0 | 0 | 0 | 1 | 13 | 0 | 100 | 100 | 100 | * | 0 | 0 |
| during | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 100 | 100 | 100 | * | 0 | 0 |
| on | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | * | * | * |
| subtotals | 115 | 49 | 15 | 0 | 11 | 23 | 89 | 0 | 89 | 77 | 47 | 42 | 13 | 31 |

| | | | | | | | | | | | | | | |
|---------------------------|------|------|--------|----|------------|------|------------|------|---------|----|---------|----|----|----|
| ALL-OBJECTS | 6496 | 5764 | 3639 | 87 | 48 | 1577 | 2309 | 2223 | 54 | 36 | 27 | 12 | 57 | 64 |
| MATCHED-ONLY | 4783 | 4676 | 3639 | 87 | 48 | 584 | 691 | 2223 | 31 | 14 | 12 | 10 | 77 | 79 |
| TEXT-FILTERING | 145 | 146 | 143 | - | - | 3 | 2 | 2 | - | 1 | 2 | - | 99 | 98 |
| RICHNESS-NORMALIZED-ERROR | | | Wrong | | Req-fills | | All-fills | | Min-err | | Max-err | | | |
| | | | 4390.5 | | 6462 | | 6628 | | 0.6624 | | 0.6794 | | | |
| ERROR-RATE-PER-WORD | | | Wrong | | Word-count | | Error-rate | | | | | | | |
| | | | 4390.5 | | 1771 | | 2.4791 | | | | | | | |
| F-MEASURES | | | P&R | | 2P&R | | P&2R | | | | | | | |
| | | | 60.07 | | 62.31 | | 58 | | | | | | | |

2. Core-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------|------|------|-------|-----|------------|-----|------------|-----|-----|-----|-----|-----|-----|-----|
| <template> | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 204 | 197 | 170 | 0 | 3 | 24 | 31 | 2 | 25 | 15 | 12 | 2 | 83 | 86 |
| subtotals | 204 | 197 | 170 | 0 | 3 | 24 | 31 | 2 | 25 | 15 | 12 | 2 | 83 | 86 |
| <tie-up-relati | 204 | 197 | 170 | 0 | 3 | 24 | 31 | 0 | 25 | 15 | 12 | 2 | 83 | 86 |
| status | 204 | 197 | 164 | 0 | 9 | 24 | 31 | 0 | 28 | 15 | 12 | 5 | 80 | 83 |
| entity | 438 | 458 | 325 | 0 | 24 | 109 | 89 | 0 | 40 | 20 | 24 | 7 | 74 | 71 |
| joint-venture | 22 | 22 | 9 | 0 | 2 | 11 | 11 | 146 | 73 | 50 | 50 | 18 | 41 | 41 |
| subtotals | 664 | 677 | 498 | 0 | 35 | 144 | 131 | 146 | 38 | 20 | 21 | 6 | 75 | 74 |
| <entity> | 423 | 433 | 357 | 0 | 10 | 66 | 56 | 0 | 27 | 13 | 15 | 3 | 84 | 82 |
| name | 405 | 417 | 296 | 22 | 37 | 62 | 50 | 2 | 34 | 12 | 15 | 14 | 76 | 74 |
| aliases | 177 | 226 | 126 | 9 | 6 | 85 | 36 | 171 | 50 | 20 | 38 | 7 | 74 | 58 |
| location | 118 | 101 | 65 | 7 | 3 | 26 | 43 | 240 | 52 | 36 | 26 | 9 | 58 | 68 |
| nationality | 126 | 61 | 50 | 0 | 1 | 10 | 75 | 243 | 63 | 60 | 16 | 2 | 40 | 82 |
| type | 423 | 433 | 351 | 0 | 16 | 66 | 56 | 0 | 28 | 13 | 15 | 4 | 83 | 81 |
| entity-rel | 494 | 502 | 351 | 0 | 32 | 119 | 111 | 0 | 43 | 22 | 24 | 8 | 71 | 70 |
| subtotals | 1743 | 1740 | 1239 | 38 | 95 | 368 | 371 | 656 | 40 | 21 | 21 | 8 | 72 | 72 |
| <entity-relati | 219 | 208 | 174 | 0 | 5 | 29 | 40 | 0 | 30 | 18 | 14 | 3 | 79 | 84 |
| entity1 | 454 | 469 | 331 | 0 | 24 | 114 | 99 | 0 | 42 | 22 | 24 | 7 | 73 | 70 |
| entity2 | 37 | 33 | 14 | 0 | 1 | 18 | 22 | 147 | 74 | 59 | 54 | 7 | 38 | 42 |
| rel-ent2-to-e | 219 | 208 | 162 | 0 | 17 | 29 | 40 | 0 | 35 | 18 | 14 | 9 | 74 | 78 |
| status | 218 | 208 | 167 | 0 | 11 | 30 | 40 | 0 | 33 | 18 | 14 | 6 | 77 | 80 |
| subtotals | 928 | 918 | 674 | 0 | 53 | 191 | 201 | 147 | 40 | 22 | 21 | 7 | 73 | 73 |
| ALL-OBJECTS | 3539 | 3532 | 2581 | 38 | 42 | 727 | 734 | 951 | 39 | 21 | 20 | 7 | 73 | 74 |
| MATCHED-ONLY | 2990 | 3018 | 2581 | 38 | 42 | 268 | 240 | 951 | 20 | 8 | 9 | 5 | 87 | 86 |
| TEXT-FILTERING | 145 | 146 | 143 | - | - | 3 | 2 | 2 | - | 1 | 2 | - | 99 | 98 |
| ERROR-RATE-PER-WORD | | | Wrong | | Word-count | | Error-rate | | | | | | | |
| | | | 1666 | | 1771 | | 0.9407 | | | | | | | |
| F-MEASURES | | | P&R | | 2P&R | | P&2R | | | | | | | |
| | | | 73.54 | | 73.58 | | 73.5 | | | | | | | |

JJV Summary Scores
GE/CMU TEXTRACT System (Optional Test Run)

1. Full-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| <template> | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-nr | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-date | 147 | 148 | 147 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 100 | 99 |
| doc-source | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 205 | 188 | 173 | 0 | 1 | 14 | 31 | 3 | 21 | 15 | 7 | 0 | 84 | 92 |
| subtotals | 205 | 188 | 173 | 0 | 1 | 14 | 31 | 3 | 21 | 15 | 7 | 0 | 84 | 92 |
| <tie-up-relati | 205 | 188 | 173 | 0 | 1 | 14 | 31 | 0 | 21 | 15 | 7 | 0 | 84 | 92 |
| status | 205 | 188 | 165 | 0 | 9 | 14 | 31 | 0 | 25 | 15 | 7 | 5 | 80 | 88 |
| entity | 440 | 439 | 345 | 0 | 10 | 84 | 85 | 0 | 34 | 19 | 19 | 3 | 78 | 78 |
| joint-venture | 23 | 17 | 6 | 0 | 1 | 10 | 16 | 148 | 82 | 70 | 59 | 14 | 26 | 35 |
| ownership | 32 | 28 | 21 | 0 | 0 | 7 | 11 | 139 | 46 | 34 | 25 | 0 | 66 | 75 |
| activity | 235 | 191 | 150 | 0 | 6 | 35 | 79 | 0 | 44 | 34 | 18 | 4 | 64 | 78 |
| subtotals | 935 | 863 | 687 | 0 | 26 | 150 | 222 | 287 | 37 | 24 | 17 | 4 | 73 | 80 |
| <entity> | 423 | 410 | 352 | 0 | 8 | 50 | 63 | 0 | 26 | 15 | 12 | 2 | 83 | 86 |
| name | 405 | 398 | 317 | 18 | 18 | 45 | 52 | 2 | 28 | 13 | 11 | 8 | 80 | 82 |
| aliases | 176 | 155 | 123 | 9 | 2 | 21 | 42 | 191 | 35 | 24 | 14 | 5 | 72 | 82 |
| location | 118 | 89 | 69 | 6 | 3 | 11 | 40 | 254 | 44 | 34 | 12 | 8 | 61 | 81 |
| nationality | 126 | 84 | 66 | 1 | 3 | 14 | 56 | 232 | 52 | 44 | 17 | 5 | 53 | 79 |
| type | 423 | 410 | 349 | 0 | 11 | 50 | 63 | 0 | 26 | 15 | 12 | 3 | 82 | 85 |
| entity-rel | 495 | 456 | 354 | 0 | 23 | 79 | 118 | 0 | 38 | 24 | 17 | 6 | 72 | 78 |
| person | 75 | 73 | 54 | 0 | 0 | 19 | 21 | 283 | 42 | 28 | 26 | 0 | 72 | 74 |
| facility | 106 | 99 | 22 | 0 | 15 | 62 | 69 | 259 | 87 | 65 | 63 | 40 | 21 | 22 |
| subtotals | 1924 | 1764 | 1354 | 34 | 75 | 301 | 461 | 1221 | 38 | 24 | 17 | 6 | 71 | 78 |
| <entity-relati | 219 | 188 | 171 | 0 | 2 | 15 | 46 | 0 | 27 | 21 | 8 | 1 | 78 | 91 |
| entity1 | 454 | 439 | 345 | 0 | 8 | 86 | 101 | 0 | 36 | 22 | 20 | 2 | 76 | 78 |
| entity2 | 37 | 17 | 6 | 0 | 0 | 11 | 31 | 148 | 88 | 84 | 65 | 0 | 16 | 35 |
| rel-ent2-to-e | 219 | 188 | 153 | 0 | 20 | 15 | 46 | 0 | 35 | 21 | 8 | 12 | 70 | 81 |
| status | 218 | 188 | 162 | 0 | 10 | 16 | 46 | 0 | 31 | 21 | 8 | 6 | 74 | 86 |
| subtotals | 928 | 832 | 666 | 0 | 38 | 128 | 224 | 148 | 37 | 24 | 15 | 5 | 72 | 80 |
| <activity> | 235 | 191 | 162 | 0 | 5 | 24 | 68 | 0 | 37 | 29 | 12 | 3 | 69 | 85 |
| industry | 275 | 206 | 124 | 0 | 21 | 61 | 130 | 2 | 63 | 47 | 30 | 14 | 45 | 60 |
| site | 616 | 532 | 264 | 4 | 49 | 215 | 299 | 160 | 68 | 48 | 40 | 16 | 43 | 50 |
| start | 85 | 43 | 25 | 0 | 7 | 11 | 53 | 91 | 74 | 62 | 26 | 22 | 29 | 58 |
| end | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 157 | 100 | 100 | * | * | 0 | * |
| revenue | 18 | 10 | 5 | 0 | 4 | 1 | 9 | 151 | 74 | 50 | 10 | 44 | 28 | 50 |
| subtotals | 1000 | 791 | 418 | 4 | 81 | 288 | 497 | 561 | 67 | 50 | 36 | 16 | 42 | 53 |
| <industry> | 255 | 206 | 155 | 0 | 7 | 44 | 93 | 0 | 48 | 36 | 21 | 4 | 61 | 75 |
| type | 253 | 206 | 127 | 0 | 34 | 45 | 92 | 0 | 57 | 36 | 22 | 21 | 50 | 62 |
| prod-serv | 565 | 528 | 126 | 37 | 151 | 214 | 251 | 8 | 81 | 44 | 40 | 54 | 26 | 27 |
| subtotals | 818 | 734 | 253 | 37 | 185 | 259 | 343 | 8 | 75 | 42 | 35 | 43 | 33 | 37 |
| <facility> | 99 | 99 | 39 | 0 | 8 | 52 | 52 | 0 | 74 | 52 | 52 | 17 | 39 | 39 |
| name | 13 | 11 | 6 | 0 | 0 | 5 | 7 | 29 | 67 | 54 | 45 | 0 | 46 | 54 |
| location | 51 | 56 | 9 | 4 | 10 | 33 | 28 | 9 | 87 | 55 | 59 | 52 | 22 | 20 |
| type | 98 | 99 | 38 | 0 | 9 | 52 | 51 | 0 | 75 | 52 | 52 | 19 | 39 | 38 |
| subtotals | 162 | 166 | 53 | 4 | 19 | 90 | 86 | 38 | 78 | 53 | 54 | 28 | 34 | 33 |
| <person> | 75 | 73 | 60 | 0 | 0 | 13 | 15 | 0 | 32 | 20 | 18 | 0 | 80 | 82 |
| name | 75 | 73 | 53 | 5 | 2 | 13 | 15 | 0 | 37 | 20 | 18 | 8 | 74 | 76 |
| entity | 73 | 73 | 53 | 0 | 5 | 15 | 15 | 0 | 40 | 20 | 20 | 9 | 73 | 73 |
| position | 75 | 73 | 55 | 0 | 5 | 13 | 15 | 0 | 38 | 20 | 18 | 8 | 73 | 75 |
| subtotals | 223 | 219 | 161 | 5 | 12 | 41 | 45 | 0 | 38 | 20 | 19 | 8 | 73 | 75 |
| <ownership> | 32 | 28 | 22 | 0 | 0 | 6 | 10 | 0 | 42 | 31 | 21 | 0 | 69 | 78 |
| time | 12 | 4 | 0 | 0 | 2 | 2 | 10 | 14 | 100 | 83 | 50 | 100 | 0 | 0 |
| owned | 31 | 28 | 12 | 0 | 9 | 7 | 10 | 0 | 68 | 32 | 25 | 43 | 39 | 43 |
| capital | 10 | 6 | 4 | 0 | 0 | 2 | 6 | 16 | 67 | 60 | 33 | 0 | 40 | 67 |
| owner% | 80 | 56 | 41 | 0 | 7 | 8 | 32 | 0 | 53 | 40 | 14 | 14 | 51 | 73 |
| subtotals | 133 | 94 | 57 | 0 | 18 | 19 | 58 | 30 | 62 | 44 | 20 | 24 | 43 | 61 |
| <revenue> | 16 | 10 | 5 | 0 | 5 | 0 | 6 | 0 | 69 | 38 | 0 | 50 | 31 | 50 |
| type | 16 | 10 | 5 | 0 | 5 | 0 | 6 | 0 | 69 | 38 | 0 | 50 | 31 | 50 |
| total | 10 | 5 | 5 | 0 | 0 | 0 | 5 | 0 | 50 | 50 | 0 | 0 | 50 | 100 |
| total-eta | 10 | 3 | 0 | 0 | 3 | 0 | 7 | 0 | 100 | 70 | 0 | 100 | 0 | 0 |
| rate | 6 | 5 | 0 | 0 | 2 | 3 | 4 | 5 | 100 | 67 | 60 | 100 | 0 | 0 |
| rate-eta | 15 | 3 | 0 | 0 | 3 | 0 | 12 | 0 | 100 | 80 | 0 | 100 | 0 | 0 |
| subtotals | 57 | 26 | 10 | 0 | 13 | 3 | 34 | 5 | 83 | 60 | 12 | 56 | 18 | 38 |
| <time> | 108 | 49 | 29 | 0 | 13 | 7 | 66 | 0 | 75 | 61 | 14 | 31 | 27 | 59 |
| after | 102 | 46 | 29 | 0 | 10 | 7 | 63 | 0 | 73 | 62 | 15 | 26 | 28 | 63 |
| before | 13 | 3 | 0 | 0 | 0 | 3 | 13 | 0 | 100 | 100 | 100 | * | 0 | * |
| during | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 100 | 100 | * | * | 0 | * |
| on | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | * | * | * | * |
| subtotals | 116 | 49 | 29 | 0 | 10 | 10 | 77 | 0 | 77 | 66 | 20 | 26 | 25 | 59 |

| | | | | | | | | | | | | | | |
|---------------------------|------|------|-------|----|------------|------|------------|------|---------|----|---------|----|----|----|
| ALL-OBJECTS | 6501 | 5726 | 3861 | 84 | 28 | 1303 | 2078 | 2301 | 50 | 32 | 23 | 12 | 60 | 68 |
| MATCHED-ONLY | 4939 | 4939 | 3861 | 84 | 28 | 606 | 606 | 2301 | 30 | 12 | 12 | 10 | 79 | 79 |
| TEXT-FILTERING | 145 | 145 | 143 | - | - | 2 | 2 | 3 | - | 1 | 1 | - | 99 | 99 |
| RICHNESS-NORMALIZED-ERROR | | | Wrong | | Req-fills | | All-fills | | Min-err | | Max-err | | | |
| | | | 3901 | | 6471 | | 6638 | | 0.5877 | | 0.6028 | | | |
| ERROR-RATE-PER-WORD | | | Wrong | | Word-count | | Error-rate | | | | | | | |
| | | | 3901 | | 1771 | | 2.2027 | | | | | | | |
| F-MEASURES | | | P&R | | 2P&R | | P&2R | | | | | | | |
| | | | 63.84 | | 66.37 | | 61.5 | | | | | | | |

2. Core-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------|------|------|-------|-----|------------|-----|------------|-----|-----|-----|-----|-----|-----|-----|
| <template> | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 205 | 188 | 173 | 0 | 1 | 14 | 31 | 3 | 21 | 15 | 7 | 0 | 84 | 92 |
| subtotals | 205 | 188 | 173 | 0 | 1 | 14 | 31 | 3 | 21 | 15 | 7 | 0 | 84 | 92 |
| <tie-up-relati | 205 | 188 | 173 | 0 | 1 | 14 | 31 | 0 | 21 | 15 | 7 | 0 | 84 | 92 |
| status | 205 | 188 | 165 | 0 | 9 | 14 | 31 | 0 | 25 | 15 | 7 | 5 | 80 | 88 |
| entity | 440 | 439 | 345 | 0 | 10 | 84 | 85 | 0 | 34 | 19 | 19 | 3 | 78 | 78 |
| joint-venture | 23 | 17 | 6 | 0 | 1 | 10 | 16 | 148 | 82 | 70 | 59 | 14 | 26 | 35 |
| subtotals | 668 | 644 | 516 | 0 | 20 | 108 | 132 | 148 | 34 | 20 | 17 | 4 | 77 | 80 |
| <entity> | 423 | 410 | 352 | 0 | 8 | 50 | 63 | 0 | 26 | 15 | 12 | 2 | 83 | 86 |
| name | 405 | 398 | 317 | 18 | 18 | 45 | 52 | 2 | 28 | 13 | 11 | 8 | 80 | 82 |
| aliases | 176 | 155 | 123 | 9 | 2 | 21 | 42 | 191 | 35 | 24 | 14 | 5 | 72 | 82 |
| location | 118 | 89 | 69 | 6 | 3 | 11 | 40 | 254 | 44 | 34 | 12 | 8 | 61 | 81 |
| nationality | 126 | 84 | 66 | 1 | 3 | 14 | 56 | 232 | 52 | 44 | 17 | 5 | 53 | 79 |
| type | 423 | 410 | 349 | 0 | 11 | 50 | 63 | 0 | 26 | 15 | 12 | 3 | 82 | 85 |
| entity-rel | 495 | 456 | 354 | 0 | 23 | 79 | 118 | 0 | 38 | 24 | 17 | 6 | 72 | 78 |
| subtotals | 1743 | 1592 | 1278 | 34 | 60 | 220 | 371 | 679 | 34 | 21 | 14 | 6 | 74 | 81 |
| <entity-relati | 219 | 188 | 171 | 0 | 2 | 15 | 46 | 0 | 27 | 21 | 8 | 1 | 78 | 91 |
| entity1 | 454 | 439 | 345 | 0 | 8 | 86 | 101 | 0 | 36 | 22 | 20 | 2 | 76 | 78 |
| entity2 | 37 | 17 | 6 | 0 | 0 | 11 | 31 | 148 | 88 | 84 | 65 | 0 | 16 | 35 |
| rel-ent2-to-e | 219 | 188 | 153 | 0 | 20 | 15 | 46 | 0 | 35 | 21 | 8 | 12 | 70 | 81 |
| status | 218 | 188 | 162 | 0 | 10 | 16 | 46 | 0 | 31 | 21 | 8 | 6 | 74 | 86 |
| subtotals | 928 | 832 | 666 | 0 | 38 | 128 | 224 | 148 | 37 | 24 | 15 | 5 | 72 | 80 |
| ALL-OBJECTS | 3544 | 3256 | 2633 | 34 | 19 | 470 | 758 | 978 | 34 | 21 | 14 | 5 | 75 | 81 |
| MATCHED-ONLY | 2954 | 2943 | 2633 | 34 | 19 | 190 | 201 | 978 | 16 | 7 | 6 | 4 | 90 | 90 |
| TEXT-FILTERING | 145 | 145 | 143 | - | - | 2 | 2 | 3 | - | 1 | 1 | - | 99 | 99 |
| ERROR-RATE-PER-WORD | | | Wrong | | Word-count | | Error-rate | | | | | | | |
| | | | 1364 | | 1771 | | 0.7702 | | | | | | | |
| F-MEASURES | | | P&R | | 2P&R | | P&2R | | | | | | | |
| | | | 77.94 | | 79.97 | | 76.01 | | | | | | | |

JJV Summary Scores
NMSU/Brandeis Diderot System

1. Full-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| <template> | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-nr | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-date | 147 | 147 | 147 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 100 | 100 |
| doc-source | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 203 | 219 | 159 | 0 | 5 | 55 | 39 | 3 | 38 | 19 | 25 | 3 | 78 | 73 |
| subtotals | 203 | 219 | 159 | 0 | 5 | 55 | 39 | 3 | 38 | 19 | 25 | 3 | 78 | 73 |
| <tie-up-relati | 203 | 218 | 159 | 0 | 5 | 54 | 39 | 0 | 38 | 19 | 25 | 3 | 78 | 73 |
| status | 203 | 218 | 153 | 0 | 11 | 54 | 39 | 0 | 40 | 19 | 25 | 7 | 75 | 70 |
| entity | 436 | 382 | 281 | 0 | 26 | 75 | 129 | 0 | 45 | 30 | 20 | 8 | 64 | 74 |
| joint-venture | 22 | 15 | 2 | 0 | 3 | 10 | 17 | 143 | 94 | 77 | 67 | 60 | 9 | 13 |
| ownership | 31 | 0 | 0 | 0 | 0 | 0 | 31 | 136 | 100 | 100 | * | * | 0 | * |
| activity | 235 | 134 | 88 | 0 | 13 | 33 | 134 | 10 | 67 | 57 | 25 | 13 | 37 | 66 |
| subtotals | 927 | 749 | 524 | 0 | 53 | 172 | 350 | 289 | 52 | 38 | 23 | 9 | 56 | 70 |
| <entity> | 423 | 345 | 297 | 0 | 5 | 43 | 121 | 0 | 36 | 29 | 12 | 2 | 70 | 86 |
| name | 405 | 341 | 239 | 23 | 35 | 44 | 108 | 0 | 44 | 27 | 13 | 16 | 62 | 73 |
| aliases | 174 | 73 | 57 | 6 | 2 | 8 | 109 | 161 | 67 | 63 | 11 | 8 | 34 | 82 |
| location | 118 | 98 | 50 | 3 | 7 | 38 | 58 | 185 | 67 | 49 | 39 | 14 | 44 | 52 |
| nationality | 125 | 44 | 35 | 0 | 2 | 7 | 88 | 206 | 73 | 70 | 16 | 5 | 28 | 80 |
| type | 423 | 345 | 292 | 0 | 10 | 43 | 121 | 0 | 37 | 29 | 12 | 3 | 69 | 85 |
| entity-rel | 494 | 405 | 290 | 0 | 23 | 92 | 181 | 0 | 50 | 37 | 23 | 7 | 59 | 72 |
| person | 75 | 43 | 37 | 0 | 0 | 6 | 38 | 243 | 54 | 51 | 14 | 0 | 49 | 86 |
| facility | 106 | 4 | 0 | 0 | 2 | 2 | 104 | 248 | 100 | 98 | 50 | 100 | 0 | 0 |
| subtotals | 1920 | 1353 | 1000 | 32 | 81 | 240 | 807 | 1043 | 53 | 42 | 18 | 9 | 53 | 75 |
| <entity-relati | 219 | 206 | 154 | 0 | 6 | 46 | 59 | 0 | 42 | 27 | 22 | 4 | 70 | 75 |
| entity1 | 454 | 389 | 283 | 0 | 23 | 83 | 148 | 0 | 47 | 32 | 21 | 8 | 62 | 73 |
| entity2 | 37 | 6 | 2 | 0 | 1 | 3 | 34 | 142 | 95 | 92 | 50 | 33 | 5 | 33 |
| rel-ent2-to-e | 219 | 206 | 144 | 0 | 16 | 46 | 59 | 0 | 46 | 27 | 22 | 10 | 66 | 70 |
| status | 218 | 206 | 145 | 0 | 14 | 47 | 59 | 0 | 45 | 27 | 23 | 9 | 66 | 70 |
| subtotals | 928 | 807 | 574 | 0 | 54 | 179 | 300 | 142 | 48 | 32 | 22 | 8 | 62 | 71 |
| <activity> | 235 | 134 | 116 | 0 | 2 | 16 | 117 | 0 | 54 | 50 | 12 | 2 | 49 | 86 |
| industry | 274 | 198 | 87 | 0 | 38 | 73 | 149 | 0 | 75 | 54 | 37 | 30 | 32 | 44 |
| site | 617 | 356 | 164 | 4 | 46 | 142 | 403 | 81 | 78 | 65 | 40 | 22 | 27 | 47 |
| start | 84 | 7 | 4 | 0 | 0 | 3 | 80 | 69 | 95 | 95 | 43 | 0 | 5 | 57 |
| end | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 113 | 100 | 100 | * | * | 0 | * |
| revenue | 18 | 0 | 0 | 0 | 0 | 0 | 18 | 107 | 100 | 100 | * | * | 0 | * |
| subtotals | 999 | 561 | 255 | 4 | 84 | 218 | 656 | 370 | 79 | 66 | 39 | 25 | 26 | 46 |
| <industry> | 255 | 198 | 110 | 0 | 40 | 48 | 105 | 0 | 64 | 41 | 24 | 27 | 43 | 56 |
| type | 253 | 198 | 102 | 0 | 47 | 49 | 104 | 0 | 66 | 41 | 25 | 32 | 40 | 52 |
| prod-serv | 569 | 58 | 11 | 1 | 35 | 11 | 522 | 0 | 98 | 92 | 19 | 76 | 2 | 20 |
| subtotals | 822 | 256 | 113 | 1 | 82 | 60 | 626 | 0 | 87 | 76 | 23 | 42 | 14 | 44 |
| <facility> | 99 | 8 | 4 | 0 | 2 | 2 | 93 | 0 | 96 | 94 | 25 | 33 | 4 | 50 |
| name | 9 | 8 | 0 | 0 | 0 | 8 | 9 | 0 | 100 | 100 | 100 | * | 0 | 0 |
| location | 51 | 2 | 0 | 0 | 0 | 2 | 51 | 2 | 100 | 100 | 100 | * | 0 | 0 |
| type | 98 | 8 | 4 | 0 | 2 | 2 | 92 | 0 | 96 | 94 | 25 | 33 | 4 | 50 |
| subtotals | 158 | 18 | 4 | 0 | 2 | 12 | 152 | 2 | 98 | 96 | 67 | 33 | 2 | 22 |
| <person> | 75 | 43 | 40 | 0 | 0 | 3 | 35 | 0 | 49 | 47 | 7 | 0 | 53 | 93 |
| name | 75 | 38 | 33 | 0 | 2 | 3 | 40 | 0 | 58 | 53 | 8 | 6 | 44 | 87 |
| entity | 73 | 43 | 37 | 0 | 3 | 3 | 33 | 0 | 51 | 45 | 7 | 8 | 51 | 86 |
| position | 75 | 42 | 34 | 0 | 5 | 3 | 36 | 0 | 56 | 48 | 7 | 13 | 45 | 81 |
| subtotals | 223 | 123 | 104 | 0 | 10 | 9 | 109 | 0 | 55 | 49 | 7 | 9 | 47 | 84 |
| <ownership> | 31 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 100 | 100 | * | * | 0 | * |
| time | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 100 | 100 | * | * | 0 | * |
| owned | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 100 | 100 | * | * | 0 | * |
| capital | 9 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 100 | 100 | * | * | 0 | * |
| owner% | 76 | 0 | 0 | 0 | 0 | 0 | 76 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 127 | 0 | 0 | 0 | 0 | 0 | 127 | 0 | 100 | 100 | * | * | 0 | * |
| <revenue> | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| type | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 100 | 100 | * | * | 0 | * |
| total | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 100 | 100 | * | * | 0 | * |
| total-eta | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 100 | 100 | * | * | 0 | * |
| rate | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 100 | 100 | * | * | 0 | * |
| rate-eta | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 100 | 100 | * | * | 0 | * |
| subtotals | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 100 | 100 | * | * | 0 | * |
| <time> | 107 | 7 | 4 | 0 | 2 | 1 | 101 | 0 | 96 | 94 | 14 | 33 | 4 | 57 |
| after | 101 | 5 | 4 | 0 | 1 | 0 | 96 | 0 | 96 | 95 | 0 | 20 | 4 | 80 |
| before | 13 | 2 | 0 | 0 | 0 | 2 | 13 | 0 | 100 | 100 | 100 | * | 0 | * |
| during | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 100 | 100 | * | * | 0 | * |
| on | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * | * | * | * | * |
| subtotals | 115 | 7 | 4 | 0 | 1 | 2 | 110 | 0 | 96 | 96 | 28 | 20 | 3 | 57 |

| | | | | | | | | | | | | | | |
|---------------------------|------|------|------|--------|----|------------|------|------------|----|---------|----|---------|----|----|
| ALL-OBJECTS | 6479 | 4093 | 2737 | 37 | 43 | 947 | 3333 | 1849 | 63 | 51 | 23 | 12 | 42 | 67 |
| MATCHED-ONLY | 3968 | 3364 | 2737 | 37 | 43 | 315 | 919 | 1849 | 36 | 23 | 9 | 10 | 69 | 82 |
| TEXT-FILTERING | 145 | 130 | 128 | - | - | 2 | 17 | 3 | - | 12 | 2 | - | 88 | 98 |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | | Req-fills | | All-fills | | Min-err | | Max-err | | |
| ERROR-RATE-PER-WORD | | | | 4670.5 | | 6454 | | 6619 | | 0.7056 | | 0.7237 | | |
| F-MEASURES | | | | Wrong | | Word-count | | Error-rate | | | | | | |
| | | | | 4670.5 | | 1771 | | 2.6372 | | | | | | |
| | | | | P&R | | 2P&R | | P&2R | | | | | | |
| | | | | 52.13 | | 60.29 | | 45.91 | | | | | | |

2. Core-Template Test

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------|------|------|------|-------|-----|------------|------|------------|-----|-----|-----|-----|-----|-----|
| <template> | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 203 | 219 | 159 | 0 | 5 | 55 | 39 | 3 | 38 | 19 | 25 | 3 | 78 | 73 |
| subtotals | 203 | 219 | 159 | 0 | 5 | 55 | 39 | 3 | 38 | 19 | 25 | 3 | 78 | 73 |
| <tie-up-relati | 203 | 218 | 159 | 0 | 5 | 54 | 39 | 0 | 38 | 19 | 25 | 3 | 78 | 73 |
| status | 203 | 218 | 153 | 0 | 11 | 54 | 39 | 0 | 40 | 19 | 25 | 7 | 75 | 70 |
| entity | 436 | 382 | 281 | 0 | 26 | 75 | 129 | 0 | 45 | 30 | 20 | 8 | 64 | 74 |
| joint-venture | 22 | 15 | 2 | 0 | 3 | 10 | 17 | 143 | 94 | 77 | 67 | 60 | 9 | 13 |
| subtotals | 661 | 615 | 436 | 0 | 40 | 139 | 185 | 143 | 46 | 28 | 23 | 8 | 66 | 71 |
| <entity> | 423 | 345 | 297 | 0 | 5 | 43 | 121 | 0 | 36 | 29 | 12 | 2 | 70 | 86 |
| name | 405 | 341 | 239 | 23 | 35 | 44 | 108 | 0 | 44 | 27 | 13 | 16 | 62 | 73 |
| aliases | 175 | 73 | 58 | 6 | 2 | 7 | 109 | 161 | 66 | 62 | 10 | 8 | 35 | 84 |
| location | 118 | 98 | 50 | 3 | 7 | 38 | 58 | 185 | 67 | 49 | 39 | 14 | 44 | 52 |
| nationality | 125 | 44 | 35 | 0 | 2 | 7 | 88 | 206 | 73 | 70 | 16 | 5 | 28 | 80 |
| type | 423 | 345 | 292 | 0 | 10 | 43 | 121 | 0 | 37 | 29 | 12 | 3 | 69 | 85 |
| entity-rel | 494 | 405 | 290 | 0 | 23 | 92 | 181 | 0 | 50 | 37 | 23 | 7 | 59 | 72 |
| subtotals | 1740 | 1306 | 964 | 32 | 79 | 231 | 665 | 552 | 50 | 38 | 18 | 9 | 56 | 75 |
| <entity-relati | 219 | 206 | 154 | 0 | 6 | 46 | 59 | 0 | 42 | 27 | 22 | 4 | 70 | 75 |
| entity1 | 454 | 389 | 283 | 0 | 23 | 83 | 148 | 0 | 47 | 32 | 21 | 8 | 62 | 73 |
| entity2 | 37 | 6 | 2 | 0 | 1 | 3 | 34 | 142 | 95 | 92 | 50 | 33 | 5 | 33 |
| rel-ent2-to-e | 219 | 206 | 144 | 0 | 16 | 46 | 59 | 0 | 46 | 27 | 22 | 10 | 66 | 70 |
| status | 218 | 206 | 145 | 0 | 14 | 47 | 59 | 0 | 45 | 27 | 23 | 9 | 66 | 70 |
| subtotals | 928 | 807 | 574 | 0 | 54 | 179 | 300 | 142 | 48 | 32 | 22 | 8 | 62 | 71 |
| ALL-OBJECTS | 3532 | 2947 | 2133 | 32 | 38 | 604 | 1189 | 840 | 48 | 34 | 20 | 8 | 61 | 73 |
| MATCHED-ONLY | 2599 | 2447 | 2133 | 32 | 38 | 150 | 302 | 840 | 22 | 12 | 6 | 6 | 83 | 88 |
| TEXT-FILTERING | 145 | 130 | 128 | - | - | 2 | 17 | 3 | - | 12 | 2 | - | 88 | 98 |
| ERROR-RATE-PER-WORD | | | | Wrong | | Word-count | | Error-rate | | | | | | |
| F-MEASURES | | | | 1987 | | 1771 | | 1.122 | | | | | | |
| | | | | P&R | | 2P&R | | P&2R | | | | | | |
| | | | | 66.34 | | 70.14 | | 62.93 | | | | | | |

EME Summary Scores
BBN PLUM System

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|------|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|
| <template> | 300 | 300 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 609 | 590 | 436 | 0 | 7 | 147 | 166 | 39 | 42 | 27 | 25 | 2 | 72 | 74 |
| subtotals | 609 | 590 | 436 | 0 | 7 | 147 | 166 | 39 | 42 | 27 | 25 | 2 | 72 | 74 |
| <entity> | 554 | 494 | 326 | 0 | 65 | 103 | 163 | 0 | 50 | 29 | 21 | 17 | 59 | 66 |
| name | 499 | 494 | 285 | 26 | 63 | 120 | 125 | 0 | 52 | 25 | 24 | 20 | 60 | 60 |
| location | 231 | 59 | 26 | 11 | 6 | 16 | 188 | 216 | 87 | 81 | 27 | 27 | 14 | 53 |
| nationality | 76 | 55 | 20 | 2 | 7 | 26 | 47 | 270 | 79 | 62 | 47 | 28 | 28 | 38 |
| type | 554 | 494 | 325 | 0 | 66 | 103 | 163 | 0 | 50 | 29 | 21 | 17 | 59 | 66 |
| subtotals | 1360 | 1102 | 656 | 39 | 142 | 265 | 523 | 486 | 58 | 38 | 24 | 19 | 50 | 61 |
| <microelectron | 610 | 590 | 437 | 0 | 7 | 146 | 166 | 0 | 42 | 27 | 25 | 2 | 72 | 74 |
| process | 610 | 590 | 373 | 0 | 71 | 146 | 166 | 0 | 51 | 27 | 25 | 16 | 61 | 63 |
| developer | 288 | 107 | 30 | 0 | 8 | 69 | 250 | 271 | 92 | 87 | 64 | 21 | 10 | 28 |
| manufacturer | 239 | 430 | 119 | 0 | 57 | 254 | 63 | 191 | 76 | 26 | 59 | 32 | 50 | 28 |
| distributor | 233 | 106 | 48 | 0 | 18 | 40 | 167 | 242 | 82 | 72 | 38 | 27 | 21 | 45 |
| purchaser | 425 | 236 | 87 | 0 | 43 | 106 | 295 | 158 | 84 | 69 | 45 | 33 | 20 | 37 |
| subtotals | 1795 | 1469 | 657 | 0 | 197 | 615 | 941 | 862 | 73 | 52 | 42 | 23 | 37 | 45 |
| <layering> | 145 | 127 | 94 | 0 | 3 | 30 | 48 | 0 | 46 | 33 | 24 | 3 | 65 | 74 |
| type | 145 | 127 | 89 | 1 | 7 | 30 | 48 | 0 | 49 | 33 | 24 | 8 | 62 | 70 |
| film | 85 | 53 | 30 | 0 | 0 | 23 | 55 | 55 | 72 | 65 | 43 | 0 | 35 | 57 |
| temperature | 4 | 2 | 0 | 0 | 1 | 1 | 3 | 91 | 100 | 75 | 50 | 100 | 0 | 0 |
| device | 62 | 26 | 8 | 0 | 3 | 15 | 51 | 61 | 90 | 82 | 58 | 27 | 13 | 31 |
| equipment | 98 | 74 | 33 | 0 | 22 | 19 | 43 | 16 | 72 | 44 | 26 | 40 | 34 | 44 |
| subtotals | 394 | 282 | 160 | 1 | 33 | 88 | 200 | 223 | 67 | 51 | 31 | 17 | 41 | 57 |
| <lithography> | 213 | 220 | 153 | 0 | 14 | 53 | 46 | 0 | 42 | 22 | 24 | 8 | 72 | 70 |
| type | 213 | 220 | 122 | 5 | 40 | 53 | 46 | 0 | 53 | 22 | 24 | 25 | 58 | 56 |
| granularity | 45 | 7 | 0 | 0 | 1 | 6 | 44 | 118 | 100 | 98 | 86 | 100 | 0 | 0 |
| device | 92 | 99 | 46 | 0 | 6 | 47 | 40 | 80 | 67 | 43 | 47 | 12 | 50 | 46 |
| equipment | 177 | 225 | 75 | 0 | 55 | 95 | 47 | 12 | 72 | 26 | 42 | 42 | 42 | 33 |
| subtotals | 527 | 551 | 243 | 5 | 102 | 201 | 177 | 210 | 66 | 34 | 36 | 30 | 46 | 44 |
| <etching> | 60 | 73 | 42 | 0 | 0 | 31 | 18 | 0 | 54 | 30 | 42 | 0 | 70 | 58 |
| type | 60 | 73 | 37 | 0 | 5 | 31 | 18 | 0 | 59 | 30 | 42 | 12 | 62 | 51 |
| etchant | 6 | 3 | 0 | 0 | 0 | 3 | 6 | 37 | 100 | 100 | 100 | * | 0 | 0 |
| film | 27 | 22 | 6 | 2 | 0 | 14 | 19 | 25 | 83 | 70 | 64 | 12 | 26 | 32 |
| granularity | 11 | 14 | 1 | 0 | 2 | 11 | 8 | 32 | 95 | 73 | 78 | 67 | 9 | 7 |
| temperature | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 41 | 100 | 100 | 100 | * | 0 | 0 |
| device | 40 | 26 | 12 | 0 | 3 | 11 | 25 | 20 | 76 | 62 | 42 | 20 | 30 | 46 |
| equipment | 46 | 43 | 19 | 0 | 6 | 18 | 21 | 9 | 70 | 46 | 42 | 24 | 41 | 44 |
| subtotals | 191 | 182 | 75 | 2 | 16 | 89 | 98 | 164 | 73 | 51 | 49 | 18 | 40 | 42 |
| <packaging> | 193 | 170 | 120 | 0 | 8 | 42 | 65 | 0 | 49 | 34 | 25 | 6 | 62 | 70 |
| type | 193 | 170 | 100 | 5 | 23 | 42 | 65 | 0 | 56 | 34 | 25 | 20 | 53 | 60 |
| pitch | 14 | 15 | 0 | 0 | 3 | 12 | 11 | 103 | 100 | 78 | 80 | 100 | 0 | 0 |
| material | 92 | 100 | 44 | 0 | 3 | 53 | 45 | 51 | 70 | 49 | 53 | 6 | 48 | 44 |
| p-l-count | 53 | 52 | 32 | 0 | 2 | 18 | 19 | 82 | 55 | 36 | 35 | 6 | 60 | 62 |
| units | 58 | 33 | 20 | 2 | 2 | 9 | 34 | 84 | 69 | 59 | 27 | 12 | 36 | 64 |
| bonding | 33 | 45 | 16 | 0 | 4 | 25 | 13 | 94 | 72 | 39 | 56 | 20 | 48 | 36 |
| device | 173 | 124 | 46 | 0 | 24 | 54 | 103 | 11 | 80 | 60 | 44 | 34 | 26 | 37 |
| equipment | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 116 | 100 | * | 100 | * | * | 0 |
| subtotals | 616 | 543 | 258 | 7 | 61 | 217 | 290 | 541 | 69 | 47 | 40 | 20 | 42 | 48 |
| <device> | 194 | 187 | 105 | 0 | 19 | 63 | 70 | 0 | 59 | 36 | 34 | 15 | 54 | 56 |
| function | 194 | 187 | 101 | 3 | 20 | 63 | 70 | 0 | 60 | 36 | 34 | 17 | 53 | 55 |
| size | 112 | 98 | 48 | 0 | 5 | 45 | 59 | 53 | 69 | 53 | 46 | 9 | 43 | 49 |
| device-speed | 25 | 19 | 6 | 0 | 2 | 11 | 17 | 91 | 83 | 68 | 58 | 25 | 24 | 32 |
| subtotals | 331 | 304 | 155 | 3 | 27 | 119 | 146 | 144 | 65 | 44 | 39 | 15 | 47 | 51 |
| <equipment> | 350 | 199 | 160 | 0 | 16 | 23 | 174 | 0 | 57 | 50 | 12 | 9 | 46 | 80 |
| name | 132 | 56 | 18 | 5 | 14 | 19 | 95 | 79 | 86 | 72 | 34 | 44 | 16 | 37 |
| manufacturer | 268 | 141 | 58 | 0 | 50 | 33 | 160 | 17 | 81 | 60 | 23 | 46 | 22 | 41 |
| modules | 45 | 11 | 3 | 0 | 0 | 8 | 42 | 140 | 94 | 93 | 73 | 0 | 7 | 27 |
| type | 350 | 199 | 145 | 3 | 28 | 23 | 174 | 0 | 61 | 50 | 12 | 17 | 42 | 74 |
| throughput | 17 | 1 | 0 | 0 | 1 | 17 | 152 | 0 | 100 | 100 | * | 0 | 0 | 0 |
| status | 373 | 199 | 151 | 0 | 25 | 23 | 197 | 0 | 62 | 53 | 12 | 14 | 40 | 76 |
| wafer-size | 49 | 7 | 5 | 0 | 0 | 2 | 44 | 146 | 90 | 90 | 28 | 0 | 10 | 71 |
| subtotals | 1234 | 614 | 380 | 8 | 117 | 109 | 729 | 534 | 71 | 59 | 18 | 24 | 31 | 62 |
| ALL-OBJECTS | 7057 | 5637 | 3020 | 65 | 33 | 1850 | 3270 | 3203 | 66 | 46 | 33 | 19 | 43 | 54 |
| MATCHED-ONLY | 4686 | 4292 | 3020 | 65 | 33 | 739 | 1133 | 3203 | 44 | 24 | 17 | 14 | 65 | 71 |
| TEXT-FILTERING | 220 | 244 | 203 | - | - | 41 | 17 | 39 | - | 8 | 17 | - | 92 | 83 |

| | | | | | |
|---------------------------|-----------------|----------------------|----------------------|-------------------|-------------------|
| RICHNESS-NORMALIZED-ERROR | Wrong 5854.5 | Req-fills 7485 | All-fills 7822 | Min-err 0.7485 | Max-err 0.7822 |
| ERROR-RATE-PER-WORD | Wrong 5854.5 | Word-count 125680 | Error-rate 0.0466 | | |
| F-MEASURES | P&R 48.09 | 2P&R 51.55 | P&2R 45.07 | | |

EME Summary Scores
GE/CMU Shogun System

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------------|------|------|-----------------|-----|----------------------|------|---------------------|------|-------------------|-----|-------------------|-----|-----|-----|
| <template> | 300 | 300 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 608 | 633 | 440 | 0 | 4 | 189 | 164 | 32 | 45 | 27 | 30 | 1 | 72 | 70 |
| subtotals | 608 | 633 | 440 | 0 | 4 | 189 | 164 | 32 | 45 | 27 | 30 | 1 | 72 | 70 |
| <entity> | 553 | 560 | 320 | 0 | 90 | 150 | 143 | 0 | 54 | 26 | 27 | 22 | 58 | 57 |
| name | 497 | 553 | 284 | 22 | 84 | 163 | 107 | 0 | 55 | 22 | 29 | 24 | 59 | 53 |
| location | 231 | 179 | 57 | 11 | 19 | 92 | 144 | 177 | 81 | 62 | 51 | 28 | 27 | 35 |
| nationality | 78 | 11 | 4 | 2 | 0 | 5 | 72 | 285 | 94 | 92 | 45 | 17 | 6 | 45 |
| type | 553 | 560 | 320 | 0 | 90 | 150 | 143 | 0 | 54 | 26 | 27 | 22 | 58 | 57 |
| subtotals | 1359 | 1303 | 665 | 35 | 193 | 410 | 466 | 462 | 61 | 34 | 31 | 24 | 50 | 52 |
| <microelectron> | 609 | 633 | 441 | 0 | 3 | 189 | 165 | 0 | 45 | 27 | 30 | 1 | 72 | 70 |
| process | 609 | 633 | 372 | 0 | 72 | 189 | 165 | 0 | 53 | 27 | 30 | 16 | 61 | 59 |
| developer | 294 | 201 | 56 | 0 | 25 | 120 | 213 | 268 | 86 | 72 | 60 | 31 | 19 | 28 |
| manufacturer | 240 | 476 | 120 | 0 | 55 | 301 | 65 | 148 | 78 | 27 | 63 | 31 | 50 | 25 |
| distributor | 236 | 359 | 96 | 0 | 28 | 235 | 112 | 187 | 80 | 47 | 65 | 22 | 41 | 27 |
| purchaser | 426 | 461 | 124 | 0 | 78 | 259 | 224 | 131 | 82 | 52 | 56 | 39 | 29 | 27 |
| subtotals | 1805 | 2130 | 768 | 0 | 258 | 1104 | 779 | 734 | 74 | 43 | 52 | 25 | 42 | 36 |
| <layering> | 145 | 166 | 109 | 0 | 4 | 53 | 32 | 0 | 45 | 22 | 32 | 4 | 75 | 66 |
| type | 145 | 166 | 104 | 1 | 8 | 53 | 32 | 0 | 47 | 22 | 32 | 8 | 72 | 63 |
| film | 84 | 93 | 25 | 5 | 8 | 55 | 46 | 49 | 80 | 55 | 59 | 28 | 33 | 30 |
| temperature | 4 | 6 | 2 | 0 | 0 | 4 | 2 | 105 | 75 | 50 | 67 | 0 | 50 | 33 |
| device | 63 | 56 | 27 | 0 | 3 | 26 | 33 | 69 | 70 | 52 | 46 | 10 | 43 | 48 |
| equipment | 98 | 77 | 49 | 0 | 15 | 13 | 34 | 25 | 56 | 35 | 17 | 23 | 50 | 64 |
| subtotals | 394 | 398 | 207 | 6 | 34 | 151 | 147 | 248 | 61 | 37 | 38 | 15 | 53 | 53 |
| <lithography> | 212 | 203 | 147 | 0 | 7 | 49 | 58 | 0 | 44 | 27 | 24 | 4 | 69 | 72 |
| type | 212 | 203 | 109 | 4 | 41 | 49 | 58 | 0 | 57 | 27 | 24 | 28 | 52 | 55 |
| granularity | 45 | 80 | 25 | 2 | 2 | 51 | 16 | 97 | 73 | 36 | 64 | 10 | 58 | 32 |
| device | 92 | 183 | 50 | 0 | 11 | 122 | 31 | 50 | 77 | 34 | 67 | 18 | 54 | 27 |
| equipment | 176 | 172 | 101 | 0 | 24 | 47 | 51 | 11 | 55 | 29 | 27 | 19 | 57 | 59 |
| subtotals | 525 | 638 | 285 | 6 | 78 | 269 | 156 | 158 | 64 | 30 | 42 | 22 | 55 | 45 |
| <etching> | 60 | 58 | 39 | 0 | 0 | 19 | 21 | 0 | 51 | 35 | 33 | 0 | 65 | 67 |
| type | 60 | 58 | 36 | 0 | 3 | 19 | 21 | 0 | 54 | 35 | 33 | 8 | 60 | 62 |
| etchant | 6 | 2 | 1 | 0 | 0 | 1 | 5 | 36 | 86 | 83 | 50 | 0 | 17 | 50 |
| film | 27 | 28 | 8 | 2 | 0 | 18 | 17 | 24 | 80 | 63 | 64 | 10 | 33 | 32 |
| granularity | 11 | 16 | 3 | 0 | 1 | 12 | 7 | 33 | 87 | 64 | 75 | 25 | 27 | 19 |
| temperature | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 37 | 100 | 0 | 50 | 100 | 0 | 0 |
| device | 40 | 31 | 14 | 0 | 1 | 16 | 25 | 19 | 75 | 62 | 52 | 7 | 35 | 45 |
| equipment | 45 | 30 | 22 | 0 | 3 | 5 | 20 | 7 | 56 | 44 | 17 | 12 | 49 | 73 |
| subtotals | 190 | 167 | 84 | 2 | 9 | 72 | 95 | 156 | 68 | 50 | 43 | 10 | 45 | 51 |
| <packaging> | 193 | 206 | 120 | 0 | 10 | 76 | 63 | 0 | 55 | 33 | 37 | 8 | 62 | 58 |
| type | 193 | 206 | 92 | 9 | 29 | 76 | 63 | 0 | 64 | 33 | 37 | 26 | 50 | 47 |
| pitch | 14 | 7 | 2 | 0 | 2 | 3 | 10 | 113 | 88 | 71 | 43 | 50 | 14 | 28 |
| material | 92 | 58 | 35 | 0 | 2 | 21 | 55 | 63 | 69 | 60 | 36 | 5 | 38 | 60 |
| p-l-count | 53 | 62 | 37 | 0 | 0 | 25 | 16 | 82 | 52 | 30 | 40 | 0 | 70 | 60 |
| units | 57 | 42 | 19 | 2 | 1 | 20 | 35 | 82 | 74 | 61 | 48 | 9 | 35 | 48 |
| bonding | 33 | 29 | 17 | 0 | 1 | 11 | 15 | 99 | 61 | 45 | 38 | 6 | 52 | 59 |
| device | 173 | 173 | 61 | 0 | 26 | 86 | 86 | 18 | 76 | 50 | 50 | 30 | 35 | 35 |
| equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | * | * | * | * | * | * |
| subtotals | 615 | 577 | 263 | 11 | 61 | 242 | 280 | 577 | 69 | 46 | 42 | 20 | 44 | 46 |
| <device> | 193 | 240 | 127 | 0 | 23 | 90 | 43 | 0 | 55 | 22 | 38 | 15 | 66 | 53 |
| function | 193 | 240 | 122 | 5 | 23 | 90 | 43 | 0 | 56 | 22 | 38 | 17 | 64 | 52 |
| size | 112 | 96 | 62 | 0 | 3 | 31 | 47 | 66 | 57 | 42 | 32 | 5 | 55 | 64 |
| device-speed | 25 | 162 | 19 | 0 | 1 | 142 | 5 | 85 | 89 | 20 | 88 | 5 | 76 | 12 |
| subtotals | 330 | 498 | 203 | 5 | 27 | 263 | 95 | 151 | 65 | 29 | 53 | 12 | 62 | 41 |
| <equipment> | 352 | 297 | 228 | 0 | 14 | 55 | 110 | 0 | 44 | 31 | 18 | 6 | 65 | 77 |
| name | 133 | 153 | 48 | 15 | 14 | 76 | 56 | 94 | 73 | 42 | 50 | 28 | 42 | 36 |
| manufacturer | 273 | 286 | 119 | 0 | 71 | 96 | 83 | 6 | 68 | 30 | 34 | 37 | 44 | 42 |
| modules | 45 | 32 | 8 | 0 | 2 | 22 | 35 | 199 | 88 | 78 | 69 | 20 | 18 | 25 |
| type | 352 | 297 | 198 | 19 | 25 | 55 | 110 | 0 | 49 | 31 | 18 | 14 | 59 | 70 |
| throughput | 17 | 28 | 7 | 0 | 5 | 16 | 5 | 202 | 79 | 29 | 57 | 42 | 41 | 25 |
| status | 375 | 297 | 211 | 0 | 31 | 55 | 133 | 0 | 51 | 35 | 18 | 13 | 56 | 71 |
| wafer-size | 51 | 41 | 22 | 0 | 0 | 19 | 29 | 200 | 68 | 57 | 46 | 0 | 43 | 54 |
| subtotals | 1246 | 1134 | 613 | 34 | 148 | 339 | 451 | 701 | 60 | 36 | 30 | 21 | 50 | 56 |
| ALL-OBJECTS | 7072 | 7478 | 3528 | 99 | 26 | 3039 | 2633 | 3219 | 65 | 37 | 41 | 19 | 50 | 48 |
| MATCHED-ONLY | 4993 | 5303 | 3528 | 99 | 26 | 1136 | 826 | 3219 | 42 | 16 | 21 | 14 | 72 | 67 |
| TEXT-FILTERING | 219 | 257 | 208 | - | - | 49 | 11 | 32 | - | 5 | 19 | - | 95 | 81 |
| RICHNESS-NORMALIZED-ERROR | | | Wrong 6533.5 | | Req-fills 7489 | | All-fills 7821 | | Min-err 0.8354 | | Max-err 0.8724 | | | |
| ERROR-RATE-PER-WORD | | | Wrong 6533.5 | | Word-count 125680 | | Error-rate 0.052 | | | | | | | |
| F-MEASURES | | | P&R 49.18 | | 2P&R 48.37 | | P&2R 50.01 | | | | | | | |

EME Summary Scores
NMSU/Brandeis Diderot System

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE | |
|---------------------------|------|------|------|-------|------------|------------|---------|---------|-----|-----|-----|-----|-----|-----|--|
| <template> | 300 | 299 | 299 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | |
| content | 606 | 425 | 308 | 0 | 11 | 106 | 287 | 46 | 57 | 47 | 25 | 3 | 51 | 72 | |
| subtotals | 606 | 425 | 308 | 0 | 11 | 106 | 287 | 46 | 57 | 47 | 25 | 3 | 51 | 72 | |
| <entity> | 553 | 403 | 243 | 0 | 85 | 75 | 225 | 0 | 61 | 41 | 19 | 26 | 44 | 60 | |
| name | 498 | 403 | 206 | 26 | 76 | 95 | 190 | 0 | 63 | 38 | 24 | 29 | 44 | 54 | |
| location | 231 | 118 | 32 | 3 | 16 | 67 | 180 | 119 | 89 | 78 | 57 | 34 | 14 | 28 | |
| nationality | 77 | 0 | 0 | 0 | 0 | 0 | 77 | 216 | 100 | 100 | * | * | 0 | * | |
| type | 553 | 400 | 243 | 0 | 82 | 75 | 228 | 0 | 61 | 41 | 19 | 25 | 44 | 61 | |
| subtotals | 1359 | 921 | 481 | 29 | 174 | 237 | 675 | 335 | 69 | 50 | 26 | 28 | 36 | 54 | |
| <microelectron> | 607 | 425 | 309 | 0 | 11 | 105 | 287 | 0 | 57 | 47 | 25 | 3 | 51 | 73 | |
| process | 607 | 425 | 245 | 0 | 75 | 105 | 287 | 0 | 66 | 47 | 25 | 23 | 40 | 58 | |
| developer | 294 | 156 | 53 | 0 | 16 | 87 | 159 | 152 | 86 | 76 | 56 | 23 | 18 | 34 | |
| manufacturer | 237 | 253 | 49 | 0 | 45 | 159 | 143 | 100 | 88 | 60 | 63 | 48 | 21 | 19 | |
| distributor | 235 | 96 | 34 | 0 | 30 | 32 | 171 | 164 | 87 | 73 | 33 | 47 | 14 | 35 | |
| purchaser | 421 | 293 | 64 | 0 | 76 | 153 | 281 | 76 | 89 | 67 | 52 | 54 | 15 | 22 | |
| subtotals | 1794 | 1223 | 445 | 0 | 242 | 536 | 1107 | 492 | 81 | 62 | 44 | 35 | 25 | 36 | |
| <layering> | 145 | 103 | 69 | 0 | 4 | 30 | 72 | 0 | 60 | 50 | 29 | 5 | 48 | 67 | |
| type | 145 | 103 | 61 | 5 | 7 | 30 | 72 | 0 | 64 | 50 | 29 | 13 | 44 | 62 | |
| film | 85 | 31 | 18 | 0 | 0 | 13 | 67 | 36 | 82 | 79 | 42 | 0 | 21 | 58 | |
| temperature | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 68 | 100 | 100 | * | * | 0 | * | |
| device | 63 | 25 | 12 | 0 | 4 | 9 | 47 | 46 | 83 | 75 | 36 | 25 | 19 | 48 | |
| equipment | 98 | 42 | 31 | 0 | 4 | 7 | 63 | 13 | 70 | 64 | 17 | 11 | 32 | 74 | |
| subtotals | 395 | 201 | 122 | 5 | 15 | 59 | 253 | 163 | 72 | 64 | 29 | 12 | 32 | 62 | |
| <lithography> | 211 | 172 | 117 | 0 | 15 | 40 | 79 | 0 | 53 | 37 | 23 | 11 | 55 | 68 | |
| type | 211 | 138 | 74 | 0 | 34 | 30 | 103 | 0 | 69 | 49 | 22 | 31 | 35 | 54 | |
| granularity | 45 | 3 | 0 | 0 | 2 | 1 | 43 | 91 | 100 | 96 | 33 | 100 | 0 | 0 | |
| device | 91 | 58 | 25 | 0 | 8 | 25 | 58 | 66 | 78 | 64 | 43 | 24 | 27 | 43 | |
| equipment | 175 | 125 | 72 | 0 | 15 | 38 | 88 | 15 | 66 | 50 | 30 | 17 | 41 | 58 | |
| subtotals | 522 | 324 | 171 | 0 | 59 | 94 | 292 | 172 | 72 | 56 | 29 | 26 | 33 | 53 | |
| <etching> | 60 | 43 | 27 | 0 | 2 | 14 | 31 | 0 | 64 | 52 | 32 | 7 | 45 | 63 | |
| type | 60 | 26 | 15 | 0 | 1 | 10 | 44 | 0 | 78 | 73 | 38 | 6 | 25 | 58 | |
| etchant | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 24 | 100 | 100 | * | * | 0 | * | |
| film | 27 | 10 | 4 | 1 | 1 | 4 | 21 | 18 | 85 | 78 | 40 | 25 | 17 | 45 | |
| granularity | 11 | 1 | 0 | 0 | 0 | 1 | 11 | 22 | 100 | 100 | 100 | * | 0 | 0 | |
| temperature | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 27 | 100 | 100 | * | * | 0 | * | |
| device | 40 | 11 | 6 | 0 | 2 | 3 | 32 | 17 | 86 | 80 | 27 | 25 | 15 | 54 | |
| equipment | 45 | 23 | 13 | 0 | 2 | 8 | 30 | 7 | 75 | 67 | 35 | 13 | 29 | 56 | |
| subtotals | 190 | 71 | 38 | 1 | 6 | 26 | 145 | 115 | 82 | 76 | 37 | 14 | 20 | 54 | |
| <packaging> | 191 | 88 | 57 | 0 | 8 | 23 | 126 | 0 | 73 | 66 | 26 | 12 | 30 | 65 | |
| type | 191 | 51 | 26 | 5 | 11 | 9 | 149 | 0 | 86 | 78 | 18 | 32 | 15 | 56 | |
| pitch | 14 | 0 | 0 | 0 | 0 | 0 | 14 | 53 | 100 | 100 | * | * | 0 | * | |
| material | 92 | 44 | 25 | 0 | 1 | 18 | 66 | 26 | 77 | 72 | 41 | 4 | 27 | 57 | |
| p-l-count | 52 | 24 | 18 | 0 | 1 | 5 | 33 | 36 | 68 | 63 | 21 | 5 | 35 | 75 | |
| units | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 43 | 100 | 100 | * | * | 0 | * | |
| bonding | 34 | 0 | 0 | 0 | 0 | 0 | 34 | 48 | 100 | 100 | * | * | 0 | * | |
| device | 172 | 93 | 35 | 0 | 12 | 46 | 125 | 9 | 84 | 73 | 49 | 26 | 20 | 38 | |
| equipment | 1 | 8 | 1 | 0 | 0 | 7 | 0 | 52 | 88 | 0 | 88 | 0 | 100 | 12 | |
| subtotals | 613 | 220 | 105 | 5 | 25 | 85 | 478 | 267 | 84 | 78 | 39 | 20 | 18 | 49 | |
| <device> | 194 | 184 | 97 | 0 | 16 | 71 | 81 | 0 | 63 | 42 | 38 | 14 | 50 | 53 | |
| function | 194 | 184 | 91 | 6 | 16 | 71 | 81 | 0 | 64 | 42 | 38 | 17 | 48 | 51 | |
| size | 114 | 58 | 29 | 0 | 3 | 26 | 82 | 49 | 79 | 72 | 45 | 9 | 25 | 50 | |
| device-speed | 25 | 7 | 2 | 0 | 1 | 4 | 22 | 91 | 93 | 88 | 57 | 33 | 8 | 28 | |
| subtotals | 333 | 249 | 122 | 6 | 20 | 101 | 185 | 140 | 71 | 56 | 40 | 16 | 38 | 50 | |
| <equipment> | 349 | 198 | 153 | 0 | 9 | 36 | 187 | 0 | 60 | 54 | 18 | 6 | 44 | 77 | |
| name | 132 | 49 | 23 | 3 | 4 | 19 | 102 | 89 | 84 | 77 | 39 | 18 | 18 | 50 | |
| manufacturer | 267 | 153 | 52 | 0 | 40 | 61 | 175 | 15 | 84 | 66 | 40 | 43 | 19 | 34 | |
| modules | 44 | 0 | 0 | 0 | 0 | 0 | 44 | 143 | 100 | 100 | * | * | 0 | * | |
| type | 349 | 198 | 128 | 19 | 15 | 36 | 187 | 0 | 64 | 54 | 18 | 15 | 39 | 69 | |
| throughput | 17 | 0 | 0 | 0 | 0 | 0 | 17 | 144 | 100 | 100 | * | * | 0 | * | |
| status | 372 | 198 | 140 | 0 | 22 | 36 | 210 | 0 | 66 | 56 | 18 | 14 | 38 | 71 | |
| wafer-size | 49 | 1 | 1 | 0 | 0 | 0 | 48 | 138 | 98 | 98 | 0 | 0 | 2 | 100 | |
| subtotals | 1230 | 599 | 344 | 22 | 81 | 152 | 783 | 529 | 74 | 64 | 25 | 20 | 29 | 59 | |
| ALL-OBJECTS | 7042 | 4233 | 2136 | 68 | 17 | 1396 | 4205 | 2259 | 74 | 60 | 33 | 24 | 31 | 51 | |
| MATCHED-ONLY | 3630 | 3142 | 2136 | 68 | 17 | 537 | 1025 | 2259 | 48 | 28 | 17 | 17 | 60 | 69 | |
| TEXT-FILTERING | 220 | 206 | 172 | - | - | 34 | 48 | 46 | - | 22 | 16 | - | 78 | 83 | |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | Req-fills | All-fills | Min-err | Max-err | | | | | | | |
| | | | | 6268 | 7469 | 7802 | 0.8034 | 0.8392 | | | | | | | |
| ERROR-RATE-PER-WORD | | | | Wrong | Word-count | Error-rate | | | | | | | | | |
| | | | | 6268 | 125680 | 0.0499 | | | | | | | | | |
| F-MEASURES | | | | P&R | 2P&R | P&2R | | | | | | | | | |
| | | | | 38.49 | 45.26 | 33.49 | | | | | | | | | |

EME Summary Scores
UMass/Hughes CIRCUS System

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE | |
|---------------------------|------|------|------|-------|------------|------------|---------|---------|-----|-----|-----|-----|-----|-----|--|
| <template> | 300 | 300 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | |
| content | 605 | 318 | 225 | 0 | 4 | 89 | 376 | 24 | 68 | 62 | 28 | 2 | 37 | 71 | |
| subtotals | 605 | 318 | 225 | 0 | 4 | 89 | 376 | 24 | 68 | 62 | 28 | 2 | 37 | 71 | |
| <entity> | 549 | 647 | 256 | 0 | 129 | 262 | 164 | 0 | 68 | 30 | 40 | 34 | 47 | 40 | |
| name | 495 | 630 | 203 | 38 | 119 | 270 | 135 | 2 | 71 | 27 | 43 | 38 | 45 | 35 | |
| location | 231 | 52 | 18 | 3 | 8 | 23 | 202 | 157 | 92 | 87 | 44 | 33 | 8 | 38 | |
| nationality | 78 | 34 | 12 | 0 | 1 | 21 | 65 | 225 | 88 | 83 | 62 | 8 | 15 | 35 | |
| type | 549 | 631 | 251 | 0 | 128 | 252 | 170 | 0 | 69 | 31 | 40 | 34 | 46 | 40 | |
| subtotals | 1353 | 1347 | 484 | 41 | 256 | 566 | 572 | 384 | 74 | 42 | 42 | 35 | 37 | 37 | |
| <microelectron | 605 | 318 | 225 | 0 | 4 | 89 | 376 | 0 | 68 | 62 | 28 | 2 | 37 | 71 | |
| process | 605 | 347 | 190 | 0 | 39 | 118 | 376 | 0 | 74 | 62 | 34 | 17 | 31 | 55 | |
| developer | 289 | 144 | 29 | 0 | 15 | 100 | 245 | 124 | 92 | 85 | 69 | 34 | 10 | 20 | |
| manufacturer | 235 | 363 | 56 | 0 | 31 | 276 | 148 | 89 | 89 | 63 | 76 | 36 | 24 | 15 | |
| distributor | 232 | 347 | 52 | 0 | 29 | 266 | 151 | 86 | 90 | 65 | 77 | 36 | 22 | 15 | |
| purchaser | 418 | 226 | 69 | 0 | 20 | 137 | 329 | 77 | 88 | 79 | 61 | 22 | 16 | 30 | |
| subtotals | 1779 | 1427 | 396 | 0 | 134 | 897 | 1249 | 376 | 85 | 70 | 63 | 25 | 22 | 28 | |
| <layering> | 145 | 149 | 93 | 0 | 5 | 51 | 47 | 0 | 52 | 32 | 34 | 5 | 64 | 62 | |
| type | 145 | 149 | 85 | 5 | 8 | 51 | 47 | 0 | 55 | 32 | 34 | 11 | 60 | 59 | |
| film | 84 | 51 | 24 | 0 | 7 | 20 | 53 | 49 | 77 | 63 | 39 | 22 | 28 | 47 | |
| temperature | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 90 | 100 | 100 | * | * | 0 | * | |
| device | 63 | 67 | 19 | 0 | 6 | 42 | 38 | 54 | 82 | 60 | 63 | 24 | 30 | 28 | |
| equipment | 98 | 30 | 20 | 0 | 5 | 5 | 73 | 29 | 80 | 74 | 17 | 20 | 20 | 67 | |
| subtotals | 394 | 297 | 148 | 5 | 26 | 118 | 215 | 222 | 71 | 54 | 40 | 16 | 38 | 51 | |
| <lithography> | 212 | 134 | 93 | 0 | 7 | 34 | 112 | 0 | 62 | 53 | 25 | 7 | 44 | 69 | |
| type | 212 | 132 | 64 | 8 | 26 | 34 | 114 | 0 | 72 | 54 | 26 | 31 | 32 | 52 | |
| granularity | 45 | 13 | 2 | 1 | 6 | 4 | 36 | 66 | 95 | 80 | 31 | 72 | 6 | 19 | |
| device | 90 | 113 | 44 | 0 | 3 | 66 | 43 | 30 | 72 | 48 | 58 | 6 | 49 | 39 | |
| equipment | 175 | 129 | 50 | 0 | 27 | 52 | 98 | 6 | 78 | 56 | 40 | 35 | 28 | 39 | |
| subtotals | 522 | 387 | 160 | 9 | 62 | 156 | 291 | 102 | 76 | 56 | 40 | 29 | 32 | 42 | |
| <etching> | 60 | 63 | 24 | 0 | 9 | 30 | 27 | 0 | 73 | 45 | 48 | 27 | 40 | 38 | |
| type | 60 | 54 | 14 | 0 | 15 | 25 | 31 | 0 | 84 | 52 | 46 | 52 | 23 | 26 | |
| etchant | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 19 | 100 | 100 | * | * | 0 | * | |
| film | 27 | 32 | 8 | 0 | 5 | 19 | 14 | 12 | 83 | 52 | 59 | 38 | 30 | 25 | |
| granularity | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 17 | 100 | * | * | 0 | * | |
| temperature | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 24 | 100 | 100 | * | * | 0 | * | |
| device | 41 | 29 | 14 | 0 | 1 | 14 | 26 | 9 | 74 | 63 | 48 | 7 | 34 | 48 | |
| equipment | 45 | 12 | 7 | 0 | 2 | 3 | 36 | 4 | 85 | 80 | 25 | 22 | 16 | 58 | |
| subtotals | 191 | 127 | 43 | 0 | 23 | 61 | 125 | 85 | 83 | 65 | 48 | 35 | 22 | 34 | |
| <packaging> | 192 | 197 | 120 | 0 | 11 | 66 | 61 | 0 | 53 | 32 | 34 | 8 | 62 | 61 | |
| type | 192 | 197 | 92 | 1 | 38 | 66 | 61 | 0 | 64 | 32 | 34 | 29 | 48 | 47 | |
| pitch | 14 | 0 | 0 | 0 | 0 | 0 | 14 | 114 | 100 | 100 | * | * | 0 | * | |
| material | 91 | 37 | 26 | 0 | 1 | 10 | 64 | 62 | 74 | 70 | 27 | 4 | 28 | 70 | |
| p-l-count | 51 | 0 | 0 | 0 | 0 | 0 | 51 | 88 | 100 | 100 | * | * | 0 | * | |
| units | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 93 | 100 | 100 | * | * | 0 | * | |
| bonding | 34 | 0 | 0 | 0 | 0 | 0 | 34 | 105 | 100 | 100 | * | * | 0 | * | |
| device | 172 | 249 | 89 | 0 | 17 | 143 | 66 | 16 | 72 | 38 | 57 | 16 | 52 | 36 | |
| equipment | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 119 | 100 | 100 | * | 100 | * | 0 | |
| subtotals | 611 | 484 | 207 | 1 | 56 | 220 | 347 | 597 | 75 | 57 | 45 | 21 | 34 | 43 | |
| <device> | 192 | 215 | 119 | 0 | 19 | 77 | 54 | 0 | 56 | 28 | 36 | 14 | 62 | 55 | |
| function | 192 | 198 | 118 | 1 | 12 | 67 | 61 | 0 | 54 | 32 | 34 | 10 | 62 | 60 | |
| size | 114 | 70 | 36 | 0 | 7 | 27 | 71 | 44 | 74 | 62 | 38 | 16 | 32 | 51 | |
| device-speed | 25 | 11 | 2 | 0 | 0 | 9 | 23 | 105 | 94 | 92 | 82 | 0 | 8 | 18 | |
| subtotals | 331 | 279 | 156 | 1 | 19 | 103 | 155 | 149 | 64 | 47 | 37 | 11 | 47 | 56 | |
| <equipment> | 348 | 175 | 136 | 0 | 10 | 29 | 202 | 0 | 64 | 58 | 16 | 7 | 39 | 78 | |
| name | 132 | 80 | 17 | 8 | 16 | 39 | 91 | 52 | 88 | 69 | 49 | 49 | 16 | 26 | |
| manufacturer | 269 | 484 | 80 | 0 | 44 | 360 | 145 | 1 | 87 | 54 | 74 | 35 | 30 | 16 | |
| modules | 44 | 0 | 0 | 0 | 0 | 0 | 44 | 126 | 100 | 100 | * | * | 0 | * | |
| type | 348 | 163 | 111 | 7 | 17 | 28 | 213 | 0 | 70 | 61 | 17 | 15 | 33 | 70 | |
| throughput | 17 | 0 | 0 | 0 | 0 | 0 | 17 | 129 | 100 | 100 | * | * | 0 | * | |
| status | 371 | 175 | 129 | 0 | 17 | 29 | 225 | 0 | 68 | 61 | 16 | 12 | 35 | 74 | |
| wafer-size | 49 | 0 | 0 | 0 | 0 | 0 | 49 | 125 | 100 | 100 | * | * | 0 | * | |
| subtotals | 1230 | 902 | 337 | 15 | 94 | 456 | 784 | 433 | 80 | 64 | 50 | 23 | 28 | 38 | |
| ALL-OBJECTS | 7016 | 5568 | 2156 | 72 | 22 | 2666 | 4114 | 2372 | 77 | 59 | 48 | 24 | 31 | 39 | |
| MATCHED-ONLY | 3663 | 3722 | 2156 | 72 | 22 | 1140 | 1081 | 2372 | 54 | 30 | 31 | 15 | 60 | 59 | |
| TEXT-FILTERING | 219 | 243 | 186 | - | - | 57 | 33 | 24 | - | 15 | 23 | - | 85 | 76 | |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | Req-fills | All-fills | Min-err | Max-err | | | | | | | |
| | | | | 7490 | 7449 | 7779 | 0.9628 | 1.0055 | | | | | | | |
| ERROR-RATE-PER-WORD | | | | Wrong | Word-count | Error-rate | | | | | | | | | |
| | | | | 7490 | 125680 | 0.0596 | | | | | | | | | |
| F-MEASURES | | | | P&R | 2P&R | P&2R | | | | | | | | | |
| | | | | 34.84 | 37.42 | 32.59 | | | | | | | | | |

JME Summary Scores
BBN PLUM System

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|----------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <template> | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 123 | 109 | 77 | 0 | 0 | 32 | 46 | 23 | 50 | 37 | 29 | 0 | 63 | 71 |
| subtotals | 123 | 109 | 77 | 0 | 0 | 32 | 46 | 23 | 50 | 37 | 29 | 0 | 63 | 71 |
| <entity> | 121 | 111 | 71 | 0 | 8 | 32 | 42 | 0 | 54 | 35 | 29 | 10 | 59 | 64 |
| name | 120 | 111 | 64 | 2 | 13 | 32 | 41 | 0 | 57 | 34 | 29 | 18 | 54 | 58 |
| location | 58 | 0 | 0 | 0 | 0 | 0 | 58 | 36 | 100 | 100 | * | * | 0 | * |
| nationality | 36 | 0 | 0 | 0 | 0 | 0 | 36 | 50 | 100 | 100 | * | * | 0 | * |
| type | 121 | 111 | 71 | 0 | 8 | 32 | 42 | 0 | 54 | 35 | 29 | 10 | 59 | 64 |
| subtotals | 335 | 222 | 135 | 2 | 21 | 64 | 177 | 86 | 66 | 53 | 29 | 14 | 40 | 61 |
| <microelectron | 124 | 109 | 78 | 0 | 0 | 31 | 46 | 0 | 50 | 37 | 28 | 0 | 63 | 72 |
| process | 124 | 109 | 68 | 0 | 10 | 31 | 46 | 0 | 56 | 37 | 28 | 13 | 55 | 62 |
| developer | 63 | 56 | 16 | 0 | 7 | 33 | 40 | 44 | 83 | 63 | 59 | 30 | 25 | 28 |
| manufacturer | 85 | 169 | 42 | 0 | 9 | 118 | 34 | 10 | 79 | 40 | 70 | 18 | 49 | 25 |
| distributor | 80 | 83 | 31 | 0 | 6 | 46 | 43 | 26 | 75 | 54 | 55 | 16 | 39 | 37 |
| purchaser | 25 | 11 | 6 | 0 | 0 | 5 | 19 | 61 | 80 | 76 | 45 | 0 | 24 | 54 |
| subtotals | 377 | 428 | 163 | 0 | 32 | 233 | 182 | 141 | 73 | 48 | 54 | 16 | 43 | 38 |
| <layering> | 44 | 30 | 23 | 0 | 1 | 6 | 20 | 0 | 54 | 45 | 20 | 4 | 52 | 77 |
| type | 44 | 30 | 21 | 2 | 1 | 6 | 20 | 0 | 56 | 45 | 20 | 8 | 50 | 73 |
| film | 13 | 0 | 0 | 0 | 0 | 0 | 13 | 20 | 100 | 100 | * | * | 0 | * |
| temperature | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 21 | 100 | 100 | * | * | 0 | * |
| device | 13 | 2 | 1 | 0 | 0 | 1 | 12 | 15 | 93 | 92 | 50 | 0 | 8 | 50 |
| equipment | 39 | 34 | 10 | 0 | 6 | 18 | 23 | 1 | 82 | 59 | 53 | 38 | 26 | 29 |
| subtotals | 114 | 66 | 32 | 2 | 7 | 25 | 73 | 57 | 76 | 64 | 38 | 20 | 29 | 50 |
| <lithography> | 51 | 53 | 36 | 0 | 3 | 14 | 12 | 0 | 45 | 24 | 26 | 8 | 70 | 68 |
| type | 51 | 53 | 33 | 0 | 6 | 14 | 12 | 0 | 49 | 24 | 26 | 15 | 65 | 62 |
| granularity | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 20 | 100 | 100 | * | * | 0 | * |
| device | 35 | 7 | 4 | 0 | 1 | 2 | 30 | 12 | 89 | 86 | 28 | 20 | 11 | 57 |
| equipment | 51 | 74 | 30 | 0 | 9 | 35 | 12 | 0 | 65 | 24 | 47 | 23 | 59 | 40 |
| subtotals | 160 | 134 | 67 | 0 | 16 | 51 | 77 | 32 | 68 | 48 | 38 | 19 | 42 | 50 |
| <etching> | 17 | 11 | 5 | 0 | 2 | 4 | 10 | 0 | 76 | 59 | 36 | 28 | 29 | 45 |
| type | 17 | 11 | 3 | 0 | 4 | 4 | 10 | 0 | 86 | 59 | 36 | 57 | 18 | 27 |
| etchant | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | * | * | * | * | * | * |
| film | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 100 | 100 | * | * | 0 | * |
| granularity | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 100 | 100 | * | * | 0 | * |
| temperature | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | * | * | * | * | * | * |
| device | 6 | 3 | 2 | 0 | 0 | 1 | 4 | 2 | 71 | 67 | 33 | 0 | 33 | 67 |
| equipment | 10 | 14 | 4 | 0 | 1 | 9 | 5 | 0 | 79 | 50 | 64 | 20 | 40 | 28 |
| subtotals | 39 | 28 | 9 | 0 | 5 | 14 | 25 | 20 | 83 | 64 | 50 | 36 | 23 | 32 |
| <packaging> | 12 | 15 | 8 | 0 | 0 | 7 | 4 | 0 | 58 | 33 | 47 | 0 | 67 | 53 |
| type | 12 | 15 | 8 | 0 | 0 | 7 | 4 | 0 | 58 | 33 | 47 | 0 | 67 | 53 |
| pitch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| material | 4 | 13 | 3 | 0 | 0 | 10 | 1 | 4 | 78 | 25 | 77 | 0 | 75 | 23 |
| p-l-count | 6 | 5 | 5 | 0 | 0 | 0 | 1 | 3 | 17 | 17 | 0 | 0 | 83 | 100 |
| units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| bonding | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| device | 14 | 15 | 5 | 0 | 3 | 7 | 6 | 0 | 76 | 43 | 47 | 38 | 36 | 33 |
| equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| subtotals | 36 | 48 | 21 | 0 | 3 | 24 | 12 | 39 | 65 | 33 | 50 | 12 | 58 | 44 |
| <device> | 49 | 19 | 12 | 0 | 3 | 4 | 34 | 0 | 77 | 69 | 21 | 20 | 24 | 63 |
| function | 49 | 19 | 12 | 0 | 3 | 4 | 34 | 0 | 77 | 69 | 21 | 20 | 24 | 63 |
| size | 34 | 0 | 0 | 0 | 0 | 0 | 34 | 5 | 100 | 100 | * | * | 0 | * |
| device-speed | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 10 | 100 | 100 | * | * | 0 | * |
| subtotals | 87 | 19 | 12 | 0 | 3 | 4 | 72 | 15 | 87 | 83 | 21 | 20 | 14 | 63 |
| <equipment> | 110 | 78 | 55 | 0 | 4 | 19 | 51 | 0 | 57 | 46 | 24 | 7 | 50 | 70 |
| name | 27 | 10 | 6 | 1 | 1 | 2 | 19 | 38 | 78 | 70 | 20 | 19 | 24 | 65 |
| manufacturer | 91 | 89 | 31 | 0 | 10 | 48 | 50 | 1 | 78 | 55 | 54 | 24 | 34 | 35 |
| modules | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 51 | 100 | 100 | * | * | 0 | * |
| type | 110 | 78 | 53 | 0 | 6 | 19 | 51 | 0 | 59 | 46 | 24 | 10 | 48 | 68 |
| throughput | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 55 | 100 | 100 | * | * | 0 | * |
| status | 110 | 78 | 49 | 0 | 10 | 19 | 51 | 0 | 62 | 46 | 24 | 17 | 44 | 63 |
| wafer-size | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 49 | 100 | 100 | * | * | 0 | * |
| subtotals | 368 | 255 | 139 | 1 | 27 | 88 | 201 | 194 | 69 | 55 | 34 | 16 | 38 | 55 |
| ALL-OBJECTS | 1639 | 1309 | 655 | 5 | 6 | 535 | 865 | 607 | 70 | 53 | 41 | 15 | 40 | 50 |
| MATCHED-ONLY | 987 | 955 | 655 | 5 | 6 | 220 | 252 | 607 | 46 | 26 | 23 | 10 | 67 | 69 |
| TEXT-FILTERING | 68 | 66 | 57 | - | - | 9 | 11 | 23 | - | 16 | 14 | - | 84 | 86 |

| | | | | | |
|---------------------------|-----------------|--------------------|----------------------|-------------------|-------------------|
| RICHNESS-NORMALIZED-ERROR | Wrong 1516.5 | Req-fills 1664 | All-fills 1749 | Min-err 0.8671 | Max-err 0.9114 |
| ERROR-RATE-PER-WORD | Wrong 1516.5 | Word-count 1784 | Error-rate 0.8501 | | |
| F-MEASURES | P&R 44.61 | 2P&R 47.82 | P&2R 41.8 | | |

JME Summary Scores
GE/CMU Shogun System

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE | | |
|---------------------------|------|------|-----|--------|------------|------------|---------|---------|-----|-----|-----|-----|-----|-----|--|--|
| <template> | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | | |
| content | 123 | 134 | 94 | 0 | 2 | 38 | 27 | 21 | 42 | 22 | 28 | 2 | 76 | 70 | | |
| subtotals | 123 | 134 | 94 | 0 | 2 | 38 | 27 | 21 | 42 | 22 | 28 | 2 | 76 | 70 | | |
| <entity> | 121 | 131 | 91 | 0 | 9 | 31 | 21 | 0 | 40 | 17 | 24 | 9 | 75 | 69 | | |
| name | 121 | 131 | 77 | 3 | 20 | 31 | 21 | 0 | 48 | 17 | 24 | 22 | 65 | 60 | | |
| location | 58 | 47 | 25 | 4 | 4 | 14 | 25 | 42 | 62 | 43 | 30 | 18 | 46 | 57 | | |
| nationality | 36 | 19 | 14 | 0 | 4 | 1 | 18 | 61 | 62 | 50 | 5 | 22 | 39 | 74 | | |
| type | 121 | 131 | 91 | 0 | 9 | 31 | 21 | 0 | 40 | 17 | 24 | 9 | 75 | 69 | | |
| subtotals | 336 | 328 | 207 | 7 | 37 | 77 | 85 | 103 | 49 | 25 | 23 | 16 | 63 | 64 | | |
| <microelectron | 124 | 134 | 94 | 0 | 2 | 38 | 28 | 0 | 42 | 22 | 28 | 2 | 76 | 70 | | |
| process | 124 | 134 | 84 | 0 | 12 | 38 | 28 | 0 | 48 | 22 | 28 | 12 | 68 | 63 | | |
| developer | 63 | 91 | 23 | 0 | 9 | 59 | 31 | 43 | 81 | 49 | 65 | 28 | 36 | 25 | | |
| manufacturer | 83 | 141 | 43 | 0 | 15 | 83 | 25 | 12 | 74 | 30 | 59 | 26 | 52 | 30 | | |
| distributor | 80 | 138 | 45 | 0 | 9 | 84 | 26 | 20 | 72 | 32 | 61 | 17 | 56 | 33 | | |
| purchaser | 25 | 36 | 13 | 0 | 1 | 22 | 11 | 62 | 72 | 44 | 61 | 7 | 52 | 36 | | |
| subtotals | 375 | 540 | 208 | 0 | 46 | 286 | 121 | 137 | 68 | 32 | 53 | 18 | 55 | 38 | | |
| <layering> | 44 | 57 | 36 | 0 | 1 | 20 | 7 | 0 | 44 | 16 | 35 | 3 | 82 | 63 | | |
| type | 44 | 57 | 32 | 2 | 3 | 20 | 7 | 0 | 48 | 16 | 35 | 11 | 75 | 58 | | |
| film | 13 | 2 | 0 | 0 | 1 | 1 | 12 | 28 | 100 | 92 | 50 | 100 | 0 | 0 | | |
| temperature | 5 | 5 | 2 | 0 | 0 | 3 | 3 | 31 | 75 | 60 | 60 | 0 | 40 | 40 | | |
| device | 13 | 9 | 6 | 0 | 0 | 3 | 7 | 24 | 62 | 54 | 33 | 0 | 46 | 67 | | |
| equipment | 39 | 57 | 20 | 0 | 13 | 24 | 6 | 0 | 68 | 15 | 42 | 39 | 51 | 35 | | |
| subtotals | 114 | 130 | 60 | 2 | 17 | 51 | 35 | 83 | 63 | 31 | 39 | 23 | 54 | 47 | | |
| <lithography> | 51 | 47 | 35 | 0 | 1 | 11 | 15 | 0 | 44 | 29 | 23 | 3 | 69 | 74 | | |
| type | 51 | 47 | 30 | 0 | 6 | 11 | 15 | 0 | 52 | 29 | 23 | 17 | 59 | 64 | | |
| granularity | 24 | 36 | 8 | 5 | 2 | 21 | 9 | 15 | 77 | 38 | 58 | 30 | 44 | 29 | | |
| device | 35 | 39 | 20 | 0 | 2 | 17 | 13 | 7 | 62 | 37 | 44 | 9 | 57 | 51 | | |
| equipment | 51 | 43 | 32 | 0 | 2 | 9 | 17 | 0 | 47 | 33 | 21 | 6 | 63 | 74 | | |
| subtotals | 161 | 165 | 90 | 5 | 12 | 58 | 54 | 22 | 58 | 34 | 35 | 14 | 57 | 56 | | |
| <etching> | 17 | 15 | 9 | 0 | 1 | 5 | 7 | 0 | 59 | 41 | 33 | 10 | 53 | 60 | | |
| type | 17 | 15 | 6 | 0 | 4 | 5 | 7 | 0 | 73 | 41 | 33 | 40 | 35 | 40 | | |
| etchant | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | * | * | * | * | * | * | | |
| film | 4 | 1 | 1 | 0 | 0 | 0 | 3 | 8 | 75 | 75 | 0 | 0 | 25 | 100 | | |
| granularity | 2 | 7 | 0 | 2 | 0 | 5 | 0 | 5 | 86 | 0 | 71 | 50 | 50 | 14 | | |
| temperature | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | * | * | * | * | * | * | | |
| device | 6 | 3 | 2 | 0 | 0 | 1 | 4 | 4 | 71 | 67 | 33 | 0 | 33 | 67 | | |
| equipment | 10 | 11 | 7 | 0 | 1 | 3 | 2 | 0 | 46 | 20 | 27 | 12 | 70 | 64 | | |
| subtotals | 39 | 37 | 16 | 2 | 5 | 14 | 16 | 35 | 68 | 41 | 38 | 26 | 44 | 46 | | |
| <packaging> | 12 | 15 | 10 | 0 | 0 | 5 | 2 | 0 | 41 | 17 | 33 | 0 | 83 | 67 | | |
| type | 12 | 15 | 10 | 0 | 0 | 5 | 2 | 0 | 41 | 17 | 33 | 0 | 83 | 67 | | |
| pitch | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 10 | 100 | * | 100 | * | * | 0 | | |
| material | 4 | 6 | 3 | 0 | 0 | 3 | 1 | 7 | 57 | 25 | 50 | 0 | 75 | 50 | | |
| p-l-count | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 100 | 100 | | |
| units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | * | * | * | * | * | * | | |
| bonding | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | * | * | * | * | * | * | | |
| device | 14 | 11 | 7 | 0 | 0 | 4 | 7 | 0 | 61 | 50 | 36 | 0 | 50 | 64 | | |
| equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | * | * | * | * | * | * | | |
| subtotals | 35 | 40 | 25 | 0 | 0 | 15 | 10 | 52 | 50 | 28 | 38 | 0 | 71 | 62 | | |
| <device> | 49 | 56 | 37 | 0 | 1 | 18 | 11 | 0 | 45 | 22 | 32 | 3 | 76 | 66 | | |
| function | 49 | 56 | 34 | 3 | 1 | 18 | 11 | 0 | 47 | 22 | 32 | 6 | 72 | 63 | | |
| size | 33 | 31 | 22 | 0 | 2 | 7 | 9 | 11 | 45 | 27 | 22 | 8 | 67 | 71 | | |
| device-speed | 4 | 11 | 3 | 0 | 1 | 7 | 0 | 31 | 73 | 0 | 64 | 25 | 75 | 27 | | |
| subtotals | 86 | 98 | 59 | 3 | 4 | 32 | 20 | 42 | 49 | 23 | 33 | 8 | 70 | 62 | | |
| <equipment> | 110 | 115 | 79 | 0 | 2 | 34 | 29 | 0 | 45 | 26 | 30 | 2 | 72 | 69 | | |
| name | 27 | 21 | 16 | 0 | 0 | 5 | 11 | 54 | 50 | 41 | 24 | 0 | 59 | 76 | | |
| manufacturer | 89 | 112 | 44 | 0 | 20 | 48 | 25 | 0 | 68 | 28 | 43 | 31 | 49 | 39 | | |
| modules | 15 | 4 | 3 | 0 | 0 | 1 | 12 | 74 | 81 | 80 | 25 | 0 | 20 | 75 | | |
| type | 110 | 115 | 74 | 0 | 7 | 34 | 29 | 0 | 49 | 26 | 30 | 9 | 67 | 64 | | |
| throughput | 3 | 8 | 1 | 0 | 0 | 7 | 2 | 73 | 90 | 67 | 88 | 0 | 33 | 12 | | |
| status | 110 | 115 | 74 | 0 | 7 | 34 | 29 | 0 | 49 | 26 | 30 | 9 | 67 | 64 | | |
| wafer-size | 12 | 4 | 1 | 0 | 0 | 3 | 11 | 68 | 93 | 92 | 75 | 0 | 8 | 25 | | |
| subtotals | 366 | 379 | 213 | 0 | 34 | 132 | 119 | 269 | 57 | 32 | 35 | 14 | 58 | 56 | | |
| ALL-OBJECTS | 1635 | 1851 | 972 | 19 | 17 | 703 | 487 | 764 | 58 | 30 | 38 | 14 | 60 | 53 | | |
| MATCHED-ONLY | 1261 | 1345 | 972 | 19 | 17 | 231 | 147 | 764 | 34 | 12 | 17 | 12 | 78 | 73 | | |
| TEXT-FILTERING | 68 | 77 | 66 | - | - | 11 | 2 | 21 | - | 3 | 14 | - | 97 | 86 | | |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | Req-fills | All-fills | Min-err | Max-err | | | | | | | | |
| ERROR-RATE-PER-WORD | | | | 1356.5 | 1664 | 1749 | 0.7756 | 0.8152 | | | | | | | | |
| F-MEASURES | | | | Wrong | Word-count | Error-rate | | | | | | | | | | |
| | | | | 1356.5 | 1784 | 0.7604 | | | | | | | | | | |
| | | | | P&R | 2P&R | P&2R | | | | | | | | | | |
| | | | | 56.31 | 54.29 | 58.49 | | | | | | | | | | |

JME Summary Scores
GE/CMU TEXTRACT System (Optional Test Run)

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE | |
|---------------------------|------|------|-----|--------|------------|------------|---------|---------|-----|-----|-----|-----|-----|-----|--|
| <template> | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | |
| content | 122 | 85 | 70 | 0 | 0 | 15 | 52 | 22 | 49 | 43 | 18 | 0 | 57 | 82 | |
| subtotals | 122 | 85 | 70 | 0 | 0 | 15 | 52 | 22 | 49 | 43 | 18 | 0 | 57 | 82 | |
| <entity> | 117 | 112 | 81 | 0 | 6 | 25 | 30 | 0 | 43 | 26 | 22 | 7 | 69 | 72 | |
| name | 116 | 112 | 70 | 4 | 13 | 25 | 29 | 0 | 49 | 25 | 22 | 17 | 62 | 64 | |
| location | 56 | 39 | 21 | 5 | 4 | 9 | 26 | 40 | 64 | 46 | 23 | 22 | 42 | 60 | |
| nationality | 36 | 31 | 20 | 0 | 4 | 7 | 12 | 57 | 53 | 33 | 22 | 17 | 56 | 64 | |
| type | 117 | 112 | 81 | 0 | 6 | 25 | 30 | 0 | 43 | 26 | 22 | 7 | 69 | 72 | |
| subtotals | 325 | 294 | 192 | 9 | 27 | 66 | 97 | 97 | 50 | 30 | 22 | 14 | 60 | 67 | |
| <microelectron | 123 | 85 | 70 | 0 | 0 | 15 | 53 | 0 | 49 | 43 | 18 | 0 | 57 | 82 | |
| process | 123 | 85 | 68 | 0 | 2 | 15 | 53 | 0 | 51 | 43 | 18 | 3 | 55 | 80 | |
| developer | 62 | 52 | 18 | 0 | 3 | 31 | 41 | 37 | 81 | 66 | 60 | 14 | 29 | 35 | |
| manufacturer | 83 | 101 | 44 | 0 | 7 | 50 | 32 | 11 | 67 | 38 | 50 | 14 | 53 | 44 | |
| distributor | 80 | 77 | 42 | 0 | 1 | 34 | 37 | 20 | 63 | 46 | 44 | 2 | 52 | 54 | |
| purchaser | 23 | 42 | 10 | 0 | 3 | 29 | 10 | 46 | 81 | 43 | 69 | 23 | 43 | 24 | |
| subtotals | 371 | 357 | 182 | 0 | 16 | 159 | 173 | 114 | 66 | 47 | 44 | 8 | 49 | 51 | |
| <layering> | 44 | 30 | 24 | 0 | 1 | 5 | 19 | 0 | 51 | 43 | 17 | 4 | 54 | 80 | |
| type | 44 | 30 | 23 | 0 | 2 | 5 | 19 | 0 | 53 | 43 | 17 | 8 | 52 | 77 | |
| film | 13 | 10 | 0 | 0 | 4 | 6 | 9 | 15 | 100 | 69 | 60 | 100 | 0 | 0 | |
| temperature | 5 | 6 | 0 | 0 | 2 | 4 | 3 | 19 | 100 | 60 | 67 | 100 | 0 | 0 | |
| device | 13 | 11 | 4 | 0 | 3 | 4 | 6 | 13 | 76 | 46 | 36 | 43 | 31 | 36 | |
| equipment | 39 | 24 | 17 | 0 | 3 | 4 | 19 | 3 | 60 | 49 | 17 | 15 | 44 | 71 | |
| subtotals | 114 | 81 | 44 | 0 | 14 | 23 | 56 | 50 | 68 | 49 | 28 | 24 | 38 | 54 | |
| <lithography> | 51 | 34 | 27 | 0 | 0 | 7 | 24 | 0 | 53 | 47 | 20 | 0 | 53 | 79 | |
| type | 51 | 34 | 22 | 0 | 5 | 7 | 24 | 0 | 62 | 47 | 20 | 18 | 43 | 65 | |
| granularity | 24 | 14 | 10 | 0 | 2 | 2 | 12 | 13 | 62 | 50 | 14 | 17 | 42 | 71 | |
| device | 35 | 23 | 15 | 0 | 4 | 4 | 16 | 5 | 62 | 46 | 17 | 21 | 43 | 65 | |
| equipment | 51 | 33 | 25 | 0 | 2 | 6 | 24 | 0 | 56 | 47 | 18 | 7 | 49 | 76 | |
| subtotals | 161 | 104 | 72 | 0 | 13 | 19 | 76 | 18 | 60 | 47 | 18 | 15 | 45 | 69 | |
| <etching> | 16 | 10 | 9 | 0 | 0 | 1 | 7 | 0 | 47 | 44 | 10 | 0 | 56 | 90 | |
| type | 16 | 10 | 7 | 1 | 1 | 1 | 7 | 0 | 56 | 44 | 10 | 17 | 47 | 75 | |
| etchant | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 7 | 100 | * | 100 | * | * | 0 | |
| film | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 100 | * | * | * | * | * | |
| granularity | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 8 | 50 | 50 | 0 | 0 | 50 | 100 | |
| temperature | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | * | * | * | * | * | * | |
| device | 5 | 3 | 2 | 0 | 0 | 1 | 3 | 5 | 67 | 60 | 33 | 0 | 40 | 67 | |
| equipment | 9 | 6 | 6 | 0 | 0 | 0 | 3 | 2 | 33 | 33 | 0 | 0 | 67 | 100 | |
| subtotals | 36 | 22 | 16 | 1 | 1 | 4 | 18 | 38 | 59 | 50 | 18 | 8 | 46 | 75 | |
| <packaging> | 12 | 11 | 8 | 0 | 0 | 3 | 4 | 0 | 47 | 33 | 27 | 0 | 67 | 73 | |
| type | 12 | 11 | 7 | 0 | 1 | 3 | 4 | 0 | 53 | 33 | 27 | 12 | 58 | 64 | |
| pitch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * | |
| material | 4 | 6 | 3 | 0 | 0 | 3 | 1 | 5 | 57 | 25 | 50 | 0 | 75 | 50 | |
| p-l-count | 7 | 4 | 4 | 0 | 0 | 0 | 3 | 3 | 43 | 43 | 0 | 0 | 57 | 100 | |
| units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * | |
| bonding | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * | |
| device | 14 | 5 | 5 | 0 | 0 | 0 | 9 | 0 | 64 | 64 | 0 | 0 | 36 | 100 | |
| equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * | |
| subtotals | 37 | 26 | 19 | 0 | 1 | 6 | 17 | 40 | 56 | 46 | 23 | 5 | 51 | 73 | |
| <device> | 48 | 39 | 27 | 0 | 7 | 5 | 14 | 0 | 49 | 29 | 13 | 20 | 56 | 69 | |
| function | 48 | 39 | 24 | 3 | 7 | 5 | 14 | 0 | 52 | 29 | 13 | 25 | 53 | 65 | |
| size | 34 | 29 | 22 | 0 | 3 | 4 | 9 | 2 | 42 | 26 | 14 | 12 | 65 | 76 | |
| device-speed | 4 | 4 | 3 | 0 | 1 | 0 | 0 | 23 | 25 | 0 | 0 | 25 | 75 | 75 | |
| subtotals | 86 | 72 | 49 | 3 | 11 | 9 | 23 | 25 | 47 | 27 | 12 | 20 | 59 | 70 | |
| <equipment> | 109 | 63 | 53 | 0 | 2 | 8 | 54 | 0 | 55 | 50 | 13 | 4 | 49 | 84 | |
| name | 27 | 17 | 15 | 0 | 0 | 2 | 12 | 33 | 48 | 44 | 12 | 0 | 56 | 88 | |
| manufacturer | 89 | 91 | 43 | 0 | 7 | 41 | 39 | 1 | 67 | 44 | 45 | 14 | 48 | 47 | |
| modules | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 49 | 100 | 100 | * | * | 0 | * | |
| type | 109 | 63 | 52 | 0 | 3 | 8 | 54 | 0 | 56 | 50 | 13 | 5 | 48 | 82 | |
| throughput | 3 | 3 | 2 | 0 | 0 | 1 | 1 | 50 | 50 | 33 | 33 | 0 | 67 | 67 | |
| status | 109 | 63 | 49 | 0 | 6 | 8 | 54 | 0 | 58 | 50 | 13 | 11 | 45 | 78 | |
| wafer-size | 12 | 11 | 7 | 0 | 2 | 2 | 3 | 43 | 50 | 25 | 18 | 22 | 58 | 64 | |
| subtotals | 364 | 248 | 168 | 0 | 18 | 62 | 178 | 176 | 60 | 49 | 25 | 10 | 46 | 68 | |
| ALL-OBJECTS | 1616 | 1289 | 812 | 13 | 10 | 363 | 690 | 580 | 59 | 43 | 28 | 12 | 51 | 63 | |
| MATCHED-ONLY | 1015 | 1058 | 812 | 13 | 10 | 160 | 117 | 580 | 30 | 12 | 15 | 9 | 81 | 77 | |
| TEXT-FILTERING | 67 | 75 | 64 | - | - | 11 | 3 | 22 | - | 4 | 15 | - | 96 | 85 | |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | Req-fills | All-fills | Min-err | Max-err | | | | | | | |
| | | | | 1160.5 | 1641 | 1725 | 0.6728 | 0.7072 | | | | | | | |
| ERROR-RATE-PER-WORD | | | | Wrong | Word-count | Error-rate | | | | | | | | | |
| | | | | 1160.5 | 1784 | 0.6505 | | | | | | | | | |
| F-MEASURES | | | | P&R | 2P&R | P&2R | | | | | | | | | |
| | | | | 56.35 | 60.43 | 52.79 | | | | | | | | | |

JME Summary Scores
NMSU/Brandeis Diderot System

| SLOT | POS | ACT | COR | PAR | INC | SPU | MIS | NON | ERR | UND | OVG | SUB | REC | PRE |
|---------------------------|------|-----|-----|-------|------------|------------|-----|-----|---------|---------|-----|-----|-----|-----|
| <template> | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| content | 122 | 92 | 69 | 0 | 3 | 20 | 50 | 27 | 51 | 41 | 22 | 4 | 56 | 75 |
| subtotals | 122 | 92 | 69 | 0 | 3 | 20 | 50 | 27 | 51 | 41 | 22 | 4 | 56 | 75 |
| <entity> | 117 | 91 | 71 | 0 | 6 | 14 | 40 | 0 | 46 | 34 | 15 | 8 | 61 | 78 |
| name | 116 | 91 | 61 | 4 | 12 | 14 | 39 | 0 | 52 | 34 | 15 | 18 | 54 | 69 |
| location | 56 | 34 | 20 | 1 | 4 | 9 | 31 | 30 | 68 | 55 | 26 | 18 | 37 | 60 |
| nationality | 36 | 8 | 4 | 0 | 0 | 4 | 32 | 48 | 90 | 89 | 50 | 0 | 11 | 50 |
| type | 117 | 91 | 71 | 0 | 6 | 14 | 40 | 0 | 46 | 34 | 15 | 8 | 61 | 78 |
| subtotals | 325 | 224 | 156 | 5 | 22 | 41 | 142 | 78 | 57 | 44 | 18 | 13 | 49 | 71 |
| <microelectron | 123 | 92 | 70 | 0 | 2 | 20 | 51 | 0 | 51 | 41 | 22 | 3 | 57 | 76 |
| process | 123 | 92 | 65 | 0 | 7 | 20 | 51 | 0 | 54 | 41 | 22 | 10 | 53 | 71 |
| developer | 62 | 29 | 11 | 0 | 1 | 17 | 50 | 38 | 86 | 81 | 59 | 8 | 18 | 38 |
| manufacturer | 81 | 83 | 34 | 0 | 5 | 44 | 42 | 11 | 73 | 52 | 53 | 13 | 42 | 41 |
| distributor | 79 | 28 | 19 | 0 | 1 | 8 | 59 | 25 | 78 | 75 | 28 | 5 | 24 | 68 |
| purchaser | 23 | 19 | 11 | 0 | 1 | 7 | 11 | 50 | 63 | 48 | 37 | 8 | 48 | 58 |
| subtotals | 368 | 251 | 140 | 0 | 15 | 96 | 213 | 124 | 70 | 58 | 38 | 10 | 38 | 56 |
| <layering> | 44 | 28 | 23 | 0 | 1 | 4 | 20 | 0 | 52 | 45 | 14 | 4 | 52 | 82 |
| type | 44 | 28 | 22 | 1 | 1 | 4 | 20 | 0 | 53 | 45 | 14 | 6 | 51 | 80 |
| film | 13 | 1 | 0 | 0 | 0 | 1 | 13 | 17 | 100 | 100 | 100 | * | 0 | 0 |
| temperature | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 21 | 100 | 100 | * | * | 0 | * |
| device | 13 | 1 | 1 | 0 | 0 | 0 | 12 | 16 | 92 | 92 | 0 | 0 | 8 | 100 |
| equipment | 39 | 21 | 14 | 0 | 3 | 4 | 22 | 1 | 67 | 56 | 19 | 18 | 36 | 67 |
| subtotals | 114 | 51 | 37 | 1 | 4 | 9 | 72 | 55 | 70 | 63 | 18 | 11 | 33 | 74 |
| <lithography> | 51 | 37 | 29 | 0 | 0 | 8 | 22 | 0 | 51 | 43 | 22 | 0 | 57 | 78 |
| type | 51 | 37 | 23 | 0 | 6 | 8 | 22 | 0 | 61 | 43 | 22 | 21 | 45 | 62 |
| granularity | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 18 | 100 | 100 | * | * | 0 | * |
| device | 35 | 9 | 4 | 0 | 2 | 3 | 29 | 9 | 89 | 83 | 33 | 33 | 11 | 44 |
| equipment | 51 | 40 | 27 | 0 | 1 | 12 | 23 | 0 | 57 | 45 | 30 | 4 | 53 | 68 |
| subtotals | 160 | 86 | 54 | 0 | 9 | 23 | 97 | 27 | 70 | 61 | 27 | 14 | 34 | 63 |
| <etching> | 16 | 17 | 8 | 0 | 0 | 9 | 8 | 0 | 68 | 50 | 53 | 0 | 50 | 47 |
| type | 16 | 17 | 4 | 1 | 3 | 9 | 8 | 0 | 82 | 50 | 53 | 44 | 28 | 26 |
| etchant | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| film | 4 | 2 | 1 | 0 | 0 | 1 | 3 | 7 | 80 | 75 | 50 | 0 | 25 | 50 |
| granularity | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 100 | 100 | * | * | 0 | * |
| temperature | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| device | 5 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 80 | 80 | 0 | 0 | 20 | 100 |
| equipment | 9 | 8 | 5 | 0 | 0 | 3 | 4 | 2 | 58 | 44 | 38 | 0 | 56 | 62 |
| subtotals | 36 | 28 | 11 | 1 | 3 | 13 | 21 | 35 | 76 | 58 | 46 | 23 | 32 | 41 |
| <packaging> | 12 | 10 | 8 | 0 | 0 | 2 | 4 | 0 | 43 | 33 | 20 | 0 | 67 | 80 |
| type | 12 | 10 | 8 | 0 | 0 | 2 | 4 | 0 | 43 | 33 | 20 | 0 | 67 | 80 |
| pitch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| material | 4 | 4 | 2 | 0 | 0 | 2 | 2 | 5 | 67 | 50 | 50 | 0 | 50 | 50 |
| p-l-count | 5 | 3 | 3 | 0 | 0 | 0 | 2 | 4 | 40 | 40 | 0 | 0 | 60 | 100 |
| units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| bonding | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| device | 14 | 5 | 5 | 0 | 0 | 0 | 9 | 0 | 64 | 64 | 0 | 0 | 36 | 100 |
| equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | * | * | * | * | * | * |
| subtotals | 35 | 22 | 18 | 0 | 0 | 4 | 17 | 41 | 54 | 48 | 18 | 0 | 51 | 82 |
| <device> | 48 | 16 | 14 | 0 | 0 | 2 | 34 | 0 | 72 | 71 | 12 | 0 | 29 | 88 |
| function | 48 | 16 | 11 | 3 | 0 | 2 | 34 | 0 | 75 | 71 | 12 | 11 | 26 | 78 |
| size | 33 | 5 | 5 | 0 | 0 | 0 | 28 | 2 | 85 | 85 | 0 | 0 | 15 | 100 |
| device-speed | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 100 | 100 | * | * | 0 | * |
| subtotals | 84 | 21 | 16 | 3 | 0 | 2 | 65 | 14 | 80 | 77 | 10 | 8 | 21 | 83 |
| <equipment> | 109 | 69 | 56 | 0 | 4 | 9 | 49 | 0 | 52 | 45 | 13 | 7 | 51 | 81 |
| name | 27 | 9 | 8 | 0 | 1 | 0 | 18 | 40 | 70 | 67 | 0 | 11 | 30 | 89 |
| manufacturer | 87 | 57 | 34 | 0 | 9 | 14 | 44 | 2 | 66 | 50 | 24 | 21 | 39 | 60 |
| modules | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 53 | 100 | 100 | * | * | 0 | * |
| type | 109 | 69 | 51 | 0 | 9 | 9 | 49 | 0 | 57 | 45 | 13 | 15 | 47 | 74 |
| throughput | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 55 | 100 | 100 | * | * | 0 | * |
| status | 109 | 69 | 52 | 0 | 8 | 9 | 49 | 0 | 56 | 45 | 13 | 13 | 48 | 75 |
| wafer-size | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 48 | 100 | 100 | * | * | 0 | * |
| subtotals | 362 | 204 | 145 | 0 | 27 | 32 | 190 | 198 | 63 | 52 | 16 | 16 | 40 | 71 |
| ALL-OBJECTS | 1606 | 979 | 646 | 10 | 8 | 240 | 867 | 599 | 65 | 54 | 24 | 12 | 40 | 66 |
| MATCHED-ONLY | 949 | 793 | 646 | 10 | 8 | 82 | 238 | 599 | 37 | 25 | 10 | 8 | 68 | 82 |
| TEXT-FILTERING | 67 | 62 | 56 | - | - | 6 | 11 | 27 | - | 16 | 10 | - | 84 | 90 |
| RICHNESS-NORMALIZED-ERROR | | | | Wrong | Req-fills | All-fills | | | Min-err | Max-err | | | | |
| | | | | 1195 | 1641 | 1725 | | | 0.6928 | 0.7282 | | | | |
| ERROR-RATE-PER-WORD | | | | Wrong | Word-count | Error-rate | | | | | | | | |
| | | | | 1195 | 1784 | 0.6698 | | | | | | | | |
| F-MEASURES | | | | P&R | 2P&R | P&2R | | | | | | | | |
| | | | | 50.37 | 58.95 | 43.97 | | | | | | | | |