

Text-to-Speech Accuracy Testing – 2011

The information provided in this report presents the accuracy performance of the commercially available Text-to-Speech (TTS) products. Using a test corpus of over fifteen hundred phrases, each unit was tested, scored and the results tabulated. 10 TTS products were tested. Included were products from: **AT&T**, **Acapela Group**; **Cepstral**; **CereProc**; **IVONA**; **Loquendo**; **Nuance**; **Microsoft**; **NeoSpeech**; and **SVOX**. The test corpus (1,587 words/phrases) was segmented into categories which included: Number Handling; Homograph Handling; Handling of Words of Foreign Origin; Acronym Handling; Abbreviation Handling; Name Handling; and Address Handling and the test results were presented in these categories. The average score for all units tested was 77.4% correct. Overall scores ranged from 55.3% to 97.6% correct. Within a category, scores ranged from a low of 26.4% to a high of 100.0%. The products that were tested represented the latest available release of their product as of November, 2011.

| | | <i>AT&T</i> | <i>Acapela Group</i> | <i>Cepstral</i> | <i>Cere-Proc</i> | <i>IVONA Software</i> | <i>Loquendo</i> | <i>Micro-soft</i> | <i>Neo-Speech</i> | <i>Nuance</i> | <i>SVOX</i> |
|---------------|---|-----------------|----------------------|-----------------|------------------|-----------------------|-----------------|-------------------|-------------------|---------------|-------------|
| Total Correct | N | 1,018 | 1,406 | 1,133 | 1,432 | 1,548 | 1,039 | 1,221 | 1,492 | 1,124 | 878 |
| | % | 64.2 | 88.5 | 71.4 | 90.2 | 97.5 | 65.5 | 76.9 | 94.0 | 70.8 | 55.3 |

The testing (as well as the entire development of the test program) was funded entirely by Voice Information Associates. This makes the testing and the results that were obtained unique in that they are completely unbiased and independent of the influence of any of the vendors. They represent the most objective assessment of the relative accuracy of commercially available TTS products that existed as of August, 2011.

If you have additional questions, or would like to purchase a copy of this report, contact Walt Tetschner at 978-266-1966 or tetschner@aol.com