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The Statistics Online Computational Resource (SOCR) develops, disseminates and validates interactive tools for pedagogical utilization in probability and statistics classes. These resources include online probability distribution calculators and graphing tools for over 50 probability distributions. The SOCR Distributions package allows computing of the probability values and the critical scores of all commonly used and some exotic probability distributions. This package also provides the functionality to calculate moment generating functions and probability generating functions for a variety of the distributions. These SOCR Distribution tools are designed to bridge the gap between the introductory and the more advanced computational and applied probability and statistics courses. They enable instructors to demonstrate properties and characteristics of sampling and distribution modeling and learners to experiment and complete assignments. The SOCR Distribution tools are freely distributed as computational libraries (JAR) and via Java-enabled browser graphical user interface (HTML/Java): [www.SOCR.ucla.edu](http://www.SOCR.ucla.edu). (Received September 14, 2007)