

General Description of the Control System for the LSB. J. CAMPMANY, J.A. PERLAS, LSB, Barcelona, Spain - A new synchrotron light source is planned to be built in Barcelona, formed by a storage ring, a booster synchrotron and a pre-injector. Here we present the main trends of the control system of the whole machine. It is based in the so-called "standard model" of control systems for accelerators: distributed control, three level hierarchical architecture, low levels real-time processing, friendly user/machine interface, extensive modularisation, etc. In LSB, the middle-level local controllers will be distributed for functional reasons as well as geographical. We also propose to fully exploit the growing up of commercial standard products both in hardware and in software. VME/VXI products will be implemented both in the field bus and local controllers levels. Graphical programming possibilities and software standardization will also be taking into account in the design of the whole control system, in order to fit the low cost requirements for manpower and budget.