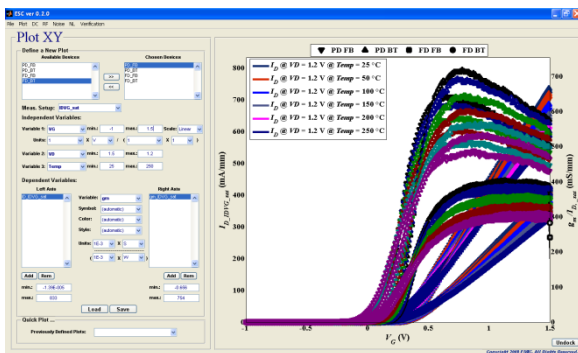


## ELECTRONIC SEMICONDUCTOR CHARACTERIZATION TOOL (ESC)

Sopartec, the technology transfer company of the Université catholique de Louvain (UCL), presents a unique Electronic Semiconductor Characterization tool (ESC).



### Technology Keywords

- Direct device parameter extraction
- Multiple extraction techniques into a single tool
- Handling of DC, AC, RF, non-linear and noise data
- CMOS (bulk/SOI), Bi-CMOS

### Technology Market : Semiconductor Industry

The ESC software gathers in a unique and flexible tool a large variety of semiconductor device characterization techniques, thereby addressing the needs of Research Centers (process development), Semiconductor foundries (quality control) as well as Design houses (technology assessment).

### The UCL Software : Key benefits

- **Broad input data formats** : our software handles all major input data file formats
- **Multiple extraction techniques** : a wide variety of direct extraction techniques (i.e. without the need for optimization) are embedded in a single environment and cover various modes of operation including DC, AC, RF, non-linear, noise, etc.
- **Flexible tool** : the software provides a straightforward procedure to add new devices and/or new extraction methodologies
- **Equivalent circuit verification** : each extracted parameter can be verified using a specific tuning variable
- **User-friendly presentation** : large amounts of data can be manipulated, either for data consistency evaluation, device performance comparison or comparison between distinct extraction techniques
- **Time-saving process** : up to 10 times faster than any case by case or individual effort to fully characterize a semiconductor device.

Sopartec is willing to provide different license schemes of the Electronic Semiconductor Characterization tool (ESC) for interested parties. (internal file reference number : TECH-34)

#### Contact

Frédéric Ooms, Ph.D.  
*Senior Patent & Licensing Manager*

Tel +32-(0)10-390 021

Email [f.ooms@sopartec.com](mailto:f.ooms@sopartec.com)

Web [www.sopartec.com](http://www.sopartec.com)  
[www.uclouvain.be](http://www.uclouvain.be)