**Table: Patents\_2004**

|  |  |
| --- | --- |
| gyear | Grant year of the patent |
| icl\_class | Patent class; this is the first 4 character of the International Patent Classification (IPC) code (<http://www.wipo.int/classifications/ipc/en/>) |
| patent | Patent ID |
| gvkey | GVKEY (<https://www.alacra.com/alacra/outside/lei/info/gvkey.html>)  of the patent assignee (firm that owns the patent) |
| at\_1 | Total Assets of the patent assignee in (gyear – 1) |
| at0 | Total Assets of the patent assignee in gyear |
| at1 | Total Assets of the patent assignee in (gyear + 1) |
| ni\_1 | Net Income of the patent assignee in (gyear – 1) |
| ni0 | Net Income of the patent assignee in gyear |
| ni1 | Net Income of the patent assignee in (gyear + 1) |
| sale\_1 | Sales of the patent assignee in (gyear – 1) |
| sale0 | Sales of the patent assignee in gyear |
| sale1 | Sales of the patent assignee in (gyear + 1) |
| xrd\_1 | R&D expense of the patent assignee in (gyear – 1) |
| xrd0 | R&D expense of the patent assignee in gyear |
| xrd1 | R&D expense of the patent assignee in (gyear + 1) |
| sic | Standard Industrial Classification (SIC) code (<http://siccode.com/en>)  of the patent assignee |

**Table: citations\_2004**

|  |  |
| --- | --- |
| citing | Patent ID of the citing patent |
| cited | Patent ID of the cited patent |
| citing\_sic | SIC code of the citing patent’s assignee |
| citing\_gyear | Grant year of the citing patent |
| citing\_icl | ICL class of the citing patent |
| cited\_sic | SIC code of the cited patent’s assignee |
| cited\_gyear | Grant year of the cited patent |
| cited\_icl | ICL class of the cited patent |

1. *Firm specific financial data have been obtained from COMPUSTAT.*
2. *Patent specific data have been obtained from NBER patent data.*